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1.3 junit 4.10

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1.4 apache-log4j 1.2.17

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1.5 jackson-xc 1.9.2

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sources-jar/com/google/protobuf/LazyField.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Utf8.java
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcChannel.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/GeneratedMessage.java
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/MessageLiteOrBuilder.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcUtil.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ProtocolMessageEnum.java
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/GeneratedMessageLite.java
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/SmallSortedMap.java
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ByteString.java
 *

/opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/CodedOutputStream.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RopeByteString.java
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/ExtensionRegistry.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RepeatedFieldBuilder.java
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/UnmodifiableLazyStringList.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/Internal.java
 *
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/BoundedByteString.java
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 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/MessageLite.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/CodedInputStream.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/MessageOrBuilder.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/TextFormat.java
 *
 /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/LazyStringList.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcCallback.java
 * /opt/cola/permits/95975238_1695283221.8167648/0/protobuf-java-2-5-0-sources-zip/protobuf-java-2-5-0-sources-jar/com/google/protobuf/RpcController.java

1.13 paranamer 2.7

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```
* /opt/cola/permits/96627344_1695283434.050613/0/fsrc-paranamer-2-7-sources-
jar/com/thoughtworks/paranamer/CachingParanamer.java
* /opt/cola/permits/96627344_1695283434.050613/0/fsrc-paranamer-2-7-sources-
jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java
* /opt/cola/permits/96627344_1695283434.050613/0/fsrc-paranamer-2-7-sources-
jar/com/thoughtworks/paranamer/AdaptiveParanamer.java
*
/opt/cola/permits/96627344_1695283434.050613/0/fsrc-paranamer-2-7-sources-
jar/com/thoughtworks/paranamer/NullParanamer.java
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* /opt/cola/permits/96627344_1695283434.050613/0/fsrc-paranamer-2-7-sources-jar/com/thoughtworks/paranamer/DefaultParanamer.java

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jar/com/thoughtworks/paranamer/PositionalParanamer.java
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jar/com/thoughtworks/paranamer/JavadocParanamer.java
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1.14 thrift 0.9.3

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compiler/cpp/src/generate/t_erl_generator.cc
compiler/cpp/src/generate/t_hs_generator.cc
compiler/cpp/src/generate/t_java_generator.cc
compiler/cpp/src/generate/t_ocaml_generator.cc
compiler/cpp/src/generate/t_perl_generator.cc
compiler/cpp/src/generate/t_php_generator.cc
compiler/cpp/src/generate/t_py_generator.cc
compiler/cpp/src/generate/t_rb_generator.cc
compiler/cpp/src/generate/t_st_generator.cc
compiler/cpp/src/generate/t_xsd_generator.cc
compiler/cpp/src/main.cc
compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse/t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thrift.ll
compiler/cpp/src/thrift.yy
lib/csharp/src/Protocol/TBinaryProtocol.cs

lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
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lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
test/ThriftTest.thrift

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```
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```

For the compiler/cpp/src/md5.[ch] components:

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L. Peter Deutsch
ghost@aladdin.com

*/

For the lib/rb/setup.rb: Copyright (c) 2000-2005 Minero Aoki,
lib/ocaml/OCamlMakefile and lib/ocaml/README-OCamlMakefile
components:

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lib/erl/src/Makefile.am

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```
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L. Peter Deutsch
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1.17 guava 20.0

1.17.1 Available under license :

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1.18 commons-io 2.4

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1.19 animal-sniffer-annotation 1.14

1.19.1 Available under license :

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="shortcut icon" href="https://opensource.org/files/osi_favicon.png" type="image/png" />
  <meta name="HandheldFriendly" content="true" />
  <link rel="shortlink" href="/node/66" />
  <meta name="Generator" content="Drupal 7 (http://drupal.org)" />
  <link rel="canonical" href="/licenses/MIT" />
  <meta name="MobileOptimized" content="width" />
  <title>The MIT License | Open Source Initiative</title>
  <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
  <link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_IPgCuu6wEwSDhUquxUkHLI7QnU.css"
```

```

media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css"
media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css"
media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-
3V9FM4wZ-5UDcpJ7Vfzmt45E.css" media="all" />
<link type="text/css" rel="stylesheet"
href="https://opensource.org/files/css/css_G9cu63kkDQ56GYuF3QrqJxma5HT-bUVZckUWKUzFCF4.css"
media="all" />

<!--[if (lt IE 9)]>
<link type="text/css" rel="stylesheet" href="https://opensource.org/sites/all/themes/bootstrap-
business/css/ie8.css?ooglib" media="all" />
<![endif]-->

<!-- HTML5 element support for IE6-8 -->
<!--[if lt IE 9]>
<script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
<script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
window.jQuery || document.write("<script
src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'\>\x3C/script>")
//--><![ ]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery(document).ready(function($) {
$(window).scroll(function() {
if($(this).scrollTop() != 0) {
$("#toTop").fadeIn();
} else {
$("#toTop").fadeOut();
}
});

$("#toTop").click(function() {
$("body,html").animate({scrollTop:0},800);
});

});

```

```

//--><![ ]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFIN3f2BnQwnusF-
eI6tkX8wrKak2siiZU.js"></script>
<script type="text/javascript">
<!--/--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"s2vZViqeD319Fq1
EBk624uZGzbS0vJ_7HPPuTvDaaeA"},"js":{"\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/suppositi
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.men
us.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/
aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mol
lom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/
all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/maxcdn.bootstrapcdn.com\/
bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bo
otstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-
business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-
business\/css\/ie8.css":1},"urlIsAjaxTrusted":{"\/licenses\/mit-
license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u002
7fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"windo
w_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":fa
lse,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extr
aWidth":1}}}}});
//--><![ ]>
</script>
</head>
<body
class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >
<div id="skip-link">
<a href="#main-content" class="element-invisible element-focusable">Skip to main content</a>
</div>
<div id="toTop"><span class="glyphicon glyphicon-chevron-up"></span></div>

<!-- #header-top -->
<div id="header-top" class="clearfix">
<div class="container">

<!-- #header-top-inside -->
<div id="header-top-inside" class="clearfix">

```

```

<div class="row">

    <div class="col-md-8">
        <!-- #header-top-left -->
        <div id="header-top-left" class="clearfix">
            <div class="region region-header-top-left">
<div
id="block-menu-secondary-menu" class="block block-menu clearfix">

<div class="content">
    <ul class="menu"><li class="first leaf"><a href="/" title="">Home</a></li>
<li class="leaf"><a href="/blog" title="">From the Board</a></li>
<li class="leaf"><a href="/contact" title="">Contact</a></li>
<li class="last leaf"><a href="/civicrm/contribute/transact?reset=1&id=2" title="">Donate</a></li>
</ul> </div>
</div>
</div>
        </div>
        <!-- EOF:#header-top-left -->
    </div>

    <div class="col-md-4">
        <!-- #header-top-right -->
        <div id="header-top-right" class="clearfix">
            <div class="region region-header-top-right">
<div id="block-search-form" class="block block-search clearfix">

<div class="content">
    <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
        <h2 class="element-invisible">Search form</h2>
        <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
        </div>
        <div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
3fdl1mgwpFzazdhVEs8DfK2cR3DKGD4vTlh3TguBqjQ" />
<input type="hidden" name="form_id" value="search_block_form" />
        </div>
    </div></form> </div>
</div>
</div>
        </div>
    </div>

```

```

        <!-- EOF:#header-top-right -->
    </div>

    </div>
</div>
<!-- EOF: #header-top-inside
-->

</div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
    <div class="container">

        <!-- #header-inside -->
        <div id="header-inside" class="clearfix">
            <div class="row">
                <div class="col-md-8">

                    <div id="logo">
                        <a href="/" title="Home" rel="home">  </a>
                    </div>

                    <div id="site-name">
                        <a href="/" title="Home">Open Source Initiative</a>
                    </div>

                </div>

                <div class="col-md-4">

                    </div>
                </div>
            </div>
        <!-- EOF: #header-inside -->

    </div>
</header>
<!-- EOF:
#header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">

```



```

<div class="container">

  <!-- #main-navigation-inside -->
  <div id="main-navigation-inside" class="clearfix">
    <div class="row">
      <div class="col-md-12">
        <nav role="navigation">
          <div class="region region-navigation">
<div id="block-superfish-1" class="block block-superfish clearfix">

<div class="content">
  <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
href="/history" title="History
of the OSI" class="sf-depth-2">History</a></li><li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-
total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors"
class="sf-depth-2 menuparent">Board</a><ul><li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-
children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board -
Annotated</a></li><li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children"><a
href="/minutes" title="Public Minutes of Board Meetings" class="sf-depth-3">Minutes</a></li><li id="menu-185-
1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/organization" title="These portfolios represent
the activities of the current OSI board." class="sf-depth-3">Organization & Operations</a></li><li id="menu-95-1"
class="middle even sf-item-4 sf-depth-3 sf-no-children"><a href="/articles-of-incorporation" title="OSI
incorporation record" class="sf-depth-3">Articles
of Incorporation</a></li><li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children"><a
href="/elections" class="sf-depth-3">Board Elections</a></li><li id="menu-84-1" class="middle even sf-item-6 sf-
depth-3 sf-no-children"><a href="/bylaws" title="Bylaws of the Open Source Initiative" class="sf-depth-
3">Bylaws</a></li><li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children"><a
href="/conflict_of_interest_policy" title="" class="sf-depth-3">Conflict of Interest</a></li></ul></li><li id="menu-
1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2
menuparent"><a href="/trademark" title="" class="sf-depth-2 menuparent">Trademark & Logo</a><ul><li
id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/trademark-guidelines"
title="OSI's Trademark Policy" class="sf-depth-3">Trademark Guidelines</a></li><li id="menu-183-1"
class="last even sf-item-2 sf-depth-3
sf-no-children"><a href="/logo-usage-guidelines" title="Guidelines for appearance and usage of OSI Logo"
class="sf-depth-3">Logo Guidelines</a></li></ul></li><li id="menu-126-1" class="last even sf-item-4 sf-depth-2
sf-no-children"><a href="/ToS" title="Rules for posting content on this site" class="sf-depth-2">Terms of
Service</a></li></ul></li><li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-
parent-children-3 sf-single-children-2 menuparent"><a href="/licenses" class="sf-depth-1
menuparent">Licenses</a><ul><li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-
parent-children-0 sf-single-children-1 menuparent"><a href="/osd" title="The actual OSD defining what constitutes
an Open Source licence" class="sf-depth-2 menuparent">Open Source Definition</a><ul><li id="menu-62-1"
class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with
explanations and rationale interspersed."

```

class="sf-depth-3">OSD - Annotated<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children">LP report to the Board<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open Standards Requirement Compliance<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale<li id="menu-103-1" class="last even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent">Affiliates<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent">Community<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children"><a href="/public_forums_disclaimer" class="sf-depth-

```

3">Disclaimer for OSI Public Forums</a></li><li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-
children"><a href="/public_archives_policy" class="sf-depth-3">Policy
on Public Communications and Archives</a></li></ul></li><li id="menu-2032-1" class="middle even sf-item-2
sf-depth-2 sf-no-children"><a href="/volunteers" class="sf-depth-2">Volunteers</a></li><li id="menu-1846-1"
class="middle odd sf-item-3 sf-depth-2 sf-no-children"><a href="http://wiki.opensource.org" title="" class="sf-
depth-2">Wiki</a></li><li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children"><a
href="/store" class="sf-depth-2">OSI Store</a></li></ul></li><li id="menu-1840-1" class="middle odd sf-item-5
sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent"><a href="/resources"
title="Page offering resources to OSI personas" class="sf-depth-1 menuparent">Resources</a><ul><li id="menu-
342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/faq" title="Frequently Asked Questions
about open source and about the OSI." class="sf-depth-2">FAQ</a></li><li id="menu-38-1" class="middle even sf-
item-2 sf-depth-2 sf-no-children"><a
href="/blog" title="A group blog / aggregation point for OSI Board Member blogs" class="sf-depth-2">OSI Board
Blog</a></li><li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0
single-children-2 menuparent"><a href="/help" title="Resources for questions and further exploration" class="sf-
depth-2 menuparent">Getting Help</a><ul><li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-
children"><a href="/links" title="Links and References to Open Source" class="sf-depth-
3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a
href="/advocacy/case_for_business.php" title="How to advocate Open Source to businesses" class="sf-depth-
3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even sf-item-4 sf-
depth-2 sf-no-children"><a href="/working_groups" class="sf-depth-2">Working Groups</a></li><li id="menu-
12-1" class="last odd sf-item-5 sf-depth-2
sf-no-children"><a href="/osi-open-source-education" title="OSI&#039;s Open Source Education Initiative and
Activities" class="sf-depth-2">Open Source Education</a></li></ul></li><li id="menu-1844-1" class="last even
sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/news"
title="Page dedicated to the latest news and events." class="sf-depth-1 menuparent">News & Events</a><ul><li
id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of
newsletters" class="sf-depth-2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2
sf-no-children"><a href="/events" class="sf-depth-2">Events</a></li></ul></li></ul> </div>
</div>
</div>
</div>
</div>
<!-- EOF: #main-navigation-inside -->

</div>
</div>
<!-- EOF: #main-navigation -->

<!-- #page -->
<div id="page"
class="clearfix">

<!-- #main-content -->

```

```

<div id="main-content">
  <div class="container">

    <!-- #messages-console -->
      <!-- EOF: #messages-console -->

    <div class="row">

      <section class="col-md-12">

        <!-- #main -->
        <div id="main" class="clearfix">

          <!-- EOF:#content-wrapper -->
          <div id="content-wrapper">

            <h1 class="page-title">The MIT License</h1>

            <!-- #tabs -->
              <div class="tabs">

            </div>
              <!-- EOF: #tabs -->

            <!-- #action links -->
              <!-- EOF: #action links -->

            <div class="region region-content">
            <div id="block-system-main" class="block block-system clearfix">

            <div class="content">
            <article id="node-66" class="node node-page clearfix">

            <div class="content">
              <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: MIT
</p>

            <div align="right">
            <button onclick="myFunction()">Further resources on the <b>MIT License</b></button>

```

```
<p id="demo"></p>
```

```
<script>
```

```
<!--><![CDATA[// ><!--
```

```
function myFunction() {
```

```
    var x;
```

```
    if (confirm("Disclaimer: While the OSI acknowledges these as potentially helpful resources for the community, it does not endorse any content, contributors or license interpretations from these websites. Any links to these resources across opensource.org are solely for navigational purposes. The OSI does not promote or exclusively favor any of the mentioned resources, but instead provides them as separate third-party resource to help inform your opinion. Any content from or links to these resources are separate from the OSI, exist for purely informational purposes and creates no attorney-client relationship between you, the OSI or the resources. If you have questions about how licenses apply to you or your organization, you should seek legal advice. ") == true) {
```

```
        x = "<br><p>The following are other community resources that may be helpful:<br><br><a href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal<br><a href=http://www.gnu.org/licenses/license-list.en.html>GNU License List<br><a href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia License List<br><a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff<br><a href=choosealicense.com>Choosealicense";
```

```
    } else {
```

```
        x = " ";
```

```
    }
```

```
    document.getElementById("demo").innerHTML = x;
```

```
}
```

```
//--><![>
```

```
</script></div>
```

```
<p>Copyright <YEAR> <COPYRIGHT HOLDER></p>
```

```
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```

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<p>The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.</p>
```

```
<p>THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED,
```

```
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```

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```

AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.</p></div></div></div> </div>

</article> </div>

</div>

</div>

</div>

<!-- EOF:#content-wrapper -->

</div>

<!-- EOF:#main -->

</section>

</div>

</div>

</div>

<!-- EOF:#main-content -->

</div>

<!-- EOF:#page -->

<footer id="subfooter" class="clearfix">

<div class="container">

<!-- #subfooter-inside -->

<div id="subfooter-inside" class="clearfix">

<div class="row">

<div class="col-md-12">

<!-- #subfooter-left -->

<div class="subfooter-area">

<div class="region region-footer">

<div id="block-block-11" class="block block-block clearfix">

```

<div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"></a>

<a href="http://creativecommons.org/licenses/by/4.0/" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"></a>

<script id="fbwiuwz">
<!----><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src="//api.flattr.com/button/view/?uid=osi&u
rl=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.inse
rtBefore(f,s);})('fbwiuwz');
//--><![]]>
</script></p>
</div>

<br /><div class="license" style="vertical-align: middle; display: inline-block;">
<p>
OpenSource.org site content is licensed under a <a rel="license"
href="http://creativecommons.org/licenses/by/4.0/">Creative Commons Attribution 4.0 International License</a>.
</p>
<p>
<a href="..../ToS">Terms of Service</a>
</p>
</div>
</div>
</div>
<div id="block-block-7" class="block block-block clearfix">

<div class="content">

```

```

    <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
    <!--//--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script> </div>
</div>
</div>

        </div>
        <!-- EOF: #subfooter-left -->
    </div>
</div>
</div>
<!-- EOF: #subfooter-inside -->

</div>
</footer>
<!-- EOF:#subfooter -->
</body>
</html>

```

1.20 slf4j 1.7.25

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1.21 zookeeper 3.4.6

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1.22 curator-framework 2.12.0

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1.24 json-simple 1.1.1

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1.29 aspectj-tools 1.8.13

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1.30 slf4j-jdk14 1.7.25

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* /opt/cola/permits/178086466_1695328467.4138672/0/slf4j-jdk14-1-7-25-sources-  
jar/org/slf4j/impl/JDK14LoggerAdapter.java  
* /opt/cola/permits/178086466_1695328467.4138672/0/slf4j-jdk14-1-7-25-sources-  
jar/org/slf4j/impl/JDK14LoggerFactory.java  
* /opt/cola/permits/178086466_1695328467.4138672/0/slf4j-jdk14-1-7-25-sources-  
jar/org/slf4j/impl/StaticLoggerBinder.java  
* /opt/cola/permits/178086466_1695328467.4138672/0/slf4j-jdk14-1-7-25-sources-  
jar/org/slf4j/impl/StaticMarkerBinder.java  
* /opt/cola/permits/178086466_1695328467.4138672/0/slf4j-jdk14-1-7-25-sources-  
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1.31 j2objc-annotations 1.1

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```

```
*/
```

```
package java.security;
```

```
import java.io.Serializable;
```

```
/**
```

```
* Legacy security code; do not use.
```

```
*/
```

```
public abstract class Permission implements Guard, Serializable {  
    public Permission(String  
name) { }
```

```
    public final String getName() { return null; }
```

```

public void checkGuard(Object obj) throws SecurityException { }

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

public abstract String getActions();

public abstract boolean implies(Permission permission);
}

```

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1.32 reflections 0.9.11

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Manifest-Version: 1.0

Bundle-Description: Reflections - a Java runtime metadata analysis

Bundle-License: <http://www.wtfpl.net/>, <http://www.opensource.org/licenses/bsd-license.html>

Bundle-SymbolicName: org.reflections

Archiver-Version: Plexus Archiver

Built-By: ron

Bnd-LastModified: 1490358733199

Bundle-ManifestVersion: 2

Import-Package: com.google.common.base;version="[20.0,21)",com.google.

common.collect;version="[20.0,21)",com.google.common.io;version="[20.

0,21)",com.google.common.util.concurrent;version="[20.0,21)",com.goog

```
le.gson;resolution:=optional,javassist;version="[3.21,4)",javassist.bytecode;version="[3.21,4)",javassist.bytecode.annotation;version="[3.21,4)",javassist.expr;version="[3.21,4)",javax.annotation;version="[3.0,4)",javax.servlet;resolution:=optional,org.dom4j;resolution:=optional,org.dom4j.io;resolution:=optional,org.reflections,org.reflections.adapters,org.reflections.scanners,org.reflections.serializers,org.reflections.util,org.reflections.vfs,org.slf4j;version="[1.7,2)";resolution:=optional
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Export-Package: org.reflections;uses:="com.google.common.base,com.google.common.collect,javax.annotation,org.reflections.adapters,org.reflections.scanners,org.reflections.serializers,org.slf4j";version="0.9.11",org.reflections.adapters;uses:="javassist.bytecode,javax.annotation,org.reflections.vfs";version="0.9.11",org.reflections.scanners;uses:="com.google.common.base,com.google.common.collect,javax.annotation,org.reflections,org.reflections.adapters,org.reflections.vfs";version="0.9.11",org.reflections.serializers;uses:="org.reflections";version="0.9.11",org.reflections.util;uses:="com.google.common.base,javax.annotation,javax.servlet,org.reflections,org.reflections.adapters,org.reflections.scanners,org.reflections.serializers,org.slf4j";version="0.9.11",org.reflections.vfs;uses:="com.google.common.base,javax.annotation";version="0.9.11"
Bundle-Name: Reflections
Bundle-Version: 0.9.11
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_101
```

Found in path(s):

* /opt/cola/permits/183118678_1695334482.2038553/0/reflections-0-9-11-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/183118678_1695334482.2038553/0/reflections-0-9-11-jar/META-

INF/maven/org.reflections/reflections/pom.xml

1.33 guava 26.0-jre

1.34 protobuf-java 3.6.0

1.35 apache-log4j 2.8

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1.36 jul-to-slf4j 1.7.26

1.37 commons-compress 1.18

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1.38 commons-http-client 3.1

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1.39 jetty-continuation 9.4.18.v20190429

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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

* javax.servlet:javax.servlet-api

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

Oracle OpenJDK

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- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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- org.ow2.asm:asm

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

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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli

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

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

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

org.eclipse.jetty.toolchain:jetty-schemas

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1.40 commons-pool 2.6.2

1.41 netty-handler-proxy 4.1.34.Final

1.42 netty-codec-socks 4.1.34.Final

1.43 netty-codec 4.1.34.Final

1.44 netty-resolver 4.1.34.Final

1.45 netty-codec-http 4.1.34.Final

1.46 netty-transport 4.1.34.Final

1.47 netty-handler 4.1.34.Final

1.48 httpcomponents-client 4.5.9

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1.49 commons-collections 4.4

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1.50 slf4j 1.7.28

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* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/IMarkerFactory.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/LocationAwareLogger.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/FormattingTuple.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
 *
 /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/Util.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/LoggerFactory.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/SubstituteLogger.java
 * /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/impl/StaticMDCBinder.java
 *

```
/opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/spi/MDCAdapter.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/Logger.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/MarkerFactory.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-
jar/org/slf4j/helpers/BasicMarkerFactory.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/BasicMarker.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/Marker.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/MDC.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/ILoggerFactory.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-jar/org/slf4j/helpers/NOPLogger.java
*
/opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-
jar/org/slf4j/helpers/MessageFormatter.java
* /opt/cola/permits/211276241_1646171445.23/0/slf4j-api-1-7-28-sources-
jar/org/slf4j/helpers/NamedLoggerBase.java
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1.51 stax-api 1.0-2

1.52 opentracing-noop 0.31.0

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```
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopTracer.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopSpan.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopSpanContext.java
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/opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopSpanBuilder.java

* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopScopeManager.java

* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracerFactory.java

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1.53 opentracing-util 0.31.0

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* /opt/cola/permits/1000099241_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/AutoFinishScopeManager.java
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* /opt/cola/permits/1000099241_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScope.java
```

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* /opt/cola/permits/1000099241_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/ThreadLocalScopeManager.java
```

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/opt/cola/permits/1000099241_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/GlobalTracer.java
```

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* /opt/cola/permits/1000099241_1646171463.16/0/opentracing-util-0-31-0-sources-jar/io/opentracing/util/AutoFinishScope.java
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1.54 jakarta xml bind api 2.3.2

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jar/javax/servlet/resources/j2ee_web_services_client_1_1.xsd

* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/j2ee_1_4.xsd

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* /opt/cola/permits/1000764326_1646171564.36/0/servlet-api-2-5-jar/javax/servlet/resources/javaee_5.xsd

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=====

The initial code for shuffling an array (originally in class "org.apache.commons.math3.random.RandomDataGenerator", now replaced by

a method in class "org.apache.commons.math3.util.MathArrays") was inspired from the algorithm description provided in "Algorithms", by Ian Craw and John Pulham (University of Aberdeen 1999).

The textbook (containing a proof that the shuffle is uniformly random) is available here:

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.173.1898&rep=rep1&type=pdf>

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```
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/RetainedWith.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
*
/opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/ObjectiveCName.java
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```
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/Weak.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/AutoreleasePool.java
* /opt/cola/permits/1000890861_1651084689.86/0/j2objc-annotations-1-3-sources-
jar/com/google/j2objc/annotations/WeakOuter.java
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1.68 javassist 3.19.0-GA

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1.70 kryo 2.24.0

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1.72 args4j 2.33

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<d:taglib uri="licenses">

<d:tag name="dependencies">

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<td>

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<d:tag name="license">

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</d:tag>

</d:taglib>

<d:invokeBody/>

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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

- * org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javac.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.73 xz-java 1.8

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1.74 commons-lang3 3.6

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

/*

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

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From dso/aix/dso.c:

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

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

- *
- * cvt - IEEE floating point formatting routines.
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1.76 asm 6.2.1

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Found in path(s):

```
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/ModuleVisitor.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/ConstantDynamic.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-  
jar/org/objectweb/asm/signature/SignatureVisitor.java  
*  
/opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Symbol.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/ByteVector.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/MethodWriter.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/MethodVisitor.java  
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* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Opcodes.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/ModuleWriter.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Type.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-  
jar/org/objectweb/asm/ClassTooLargeException.java  
*  
/opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Context.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/ClassWriter.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-  
jar/org/objectweb/asm/signature/SignatureReader.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Handle.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/SymbolTable.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/AnnotationVisitor.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/ClassReader.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Handler.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/TypeReference.java  
*  
/opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/TypePath.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/FieldVisitor.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Constants.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-  
jar/org/objectweb/asm/MethodTooLargeException.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/AnnotationWriter.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Attribute.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/FieldWriter.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Frame.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-  
jar/org/objectweb/asm/signature/SignatureWriter.java  
* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/CurrentFrame.java
```

*

/opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/Label.java

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* /opt/cola/permits/1003069683_1646171692.7/0/asm-6-2-1-sources-jar/org/objectweb/asm/signature/package.html

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1.77 profiler 1.0.2

1.78 fastutil 7.0.13

1.78.1 Available under license :

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/*

* fastutil: Fast & compact type-specific collections for Java

*

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The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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

Apache

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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from

following Apache Tomcat jars, all ASL2 licensed.

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.80 jetty-webapp 9.4.18.v20190429

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* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

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org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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

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- * org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

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

Apache

The following artifacts are ASL2 licensed.

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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.82 jetty 9.4.18.v20190429

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Eclipse

The following artifacts are EPL.

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

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.83 jetty-servlets 9.4.18.v20190429

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The following artifacts are EPL and ASL2.

- * org.eclipse.jetty.orbit:javac.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javac.mail.glassfish

Oracle

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.84 jetty-security 9.4.18.v20190429

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* javax.annotation:javax.annotation-api

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* java.sun.security.ssl

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Eclipse

The following artifacts are EPL.

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

The following artifacts are EPL and ASL2.

- * org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- * org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-el-api

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by

Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.89 hamcrest 2.1

1.90 jedis 3.1.0

1.91 opentracing-api 0.31.0

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1.92 jetty-http-spi 9.4.18.v20190429

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

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

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org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util

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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

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org.apache.tomcat:tomcat-api

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The following artifacts are EPL.

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

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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1.97 prometheus-client 0.8.0

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1.98 leveldb 1.8

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1.99 scala 2.11.12

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }`

```
val x: ((Int, Int) => Int) = (((a, b)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`

```
val y: ((Int, Int, Int) => Int) = (((a, !)) => a)
```

^

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the

Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`

```
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)
```

^

three errors found

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1.103 go-humanize v1.0.0

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1.104 hamcrest 1.1

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1.106 toml v0.3.1

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1.107 rcrowley-go-metrics 0.0.0- 20181016184325-3113b8401b8a

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1.108 slf4j 1.7.29

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Found in path(s):

* /opt/ws_local/PERMITS_SQL/1068249083_1594327994.86/0/threadloop-1-0-2-tar-gz/threadloop-1.0.2/PKG-INFO

* /opt/ws_local/PERMITS_SQL/1068249083_1594327994.86/0/threadloop-1-0-2-tar-gz/threadloop-1.0.2/threadloop.egg-info/PKG-INFO

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* /opt/ws_local/PERMITS_SQL/1068249083_1594327994.86/0/threadloop-1-0-2-tar-gz/threadloop-1.0.2/setup.py

1.129 swagger-core 2.1.2

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Manifest-Version: 1.0

Automatic-Module-Name: io.swagger.v3.core

Bnd-LastModified: 1585747900398

Build-Jdk: 1.8.0_151

Built-By: frantuma

Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2

Bundle-Name: swagger-core

Bundle-SymbolicName: io.swagger.core.v3.swagger-core

Bundle-Version: 2.1.2

Created-By: Apache Maven Bundle Plugin

Export-Package: io.swagger.v3.core.model;version="2.1.2",io.swagger.v3.core.filter;version="2.1.2";uses:="io.swagger.v3.core.model,io.swagger.v3.oas.models,io.swagger.v3.oas.models.media,io.swagger.v3.oas.models.parameters,io.swagger.v3.oas.models.responses",io.swagger.v3.core.jackson;version="2.1.2";uses:="com.fasterxml.jackson.core,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.introspect,com.fasterxml.jackson.databind.jsontype,com.fasterxml.jackson.databind.module,com.fasterxml.jackson.databind.ser,io.swagger.v3.core.converter,io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.media,io.swagger.v3.oas.models,io.swagger.v3.oas.models.callbacks,io.swagger.v3.oas.models.media,io.swagger.v3.oas.models.responses,javax.xml.bind.annotation",io.swagger.v3.core.jackson.mixin;version="2.1.2";uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.databind.annotation,io.swagger.v3.core.jackson,io.swagger.v3.oas.models,io.swagger.v3.oas.models.callbacks,io.swagger.v3.oas.models.responses",io.swagger.v3.core.converter;version="2.1.2";uses:="com.fasterxml.jackson.annotation,io.swagger.v3.oas.models.media",io.swagger.v3.core.util;version="2.1.2";uses:="com.fasterxml.jackson.annotation,com.fasterxml.jackson.core,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.introspect,com.fasterxml.jackson.databind.module,io.swagger.v3.oas.annotations,io.swagger.v3.oas.annotations.extensions,io.swagger.v3.oas.annotations.headers,io.swagger.v3.oas.annotations.info,io.swagger.v3.oas.annotations.links,io.swagger.v3.oas.annotations.media,io.swagger.v3.oas.annotations.servers,io.swagger.v3.oas.annotations.tags,io.swagger.v3.oas.models,io.swagger.v3.oas.models.callbacks,io.swagger.v3.oas.models.examples,io.swagger.v3.oas.models.headers,io.swagger.v3.oas.models.info,io.swagger.v3.oas.models.links,io.swagger.v3.oas.models.media,io.swagger.v3.oas.models.parameters,io.swagger.v3.oas.models.responses,io.swagger.v3.oas.models.security,io.swagger.v3.oas.models.servers,io.swagger.v3.oas.models.tags,org.apache.commons.lang3.tuple" implementation-version: 2.1.2

Import-Package: javax.validation.constraints;version="[1.1,3)",com.fasterxml.jackson.annotation;version="[2.10,3)",com.fasterxml.jackson.core;version="[2.10,3)",com.fasterxml.jackson.core.type;version="[2.10,3)",com.fasterxml.jackson.core.util;version="[2.10,3)",com.fasterxml.jackson.databind;version="[2.10,3)",com.fasterxml.jackson.databind.annotation;version="[2.10,3)",com.fasterxml.jackson.databind.introspect;version="[2.10,3)",com.fasterxml.jackson.databind.jsontype;version="[2.10,3)",com.fasterxml.jackson.databind.module;version="[2.10,3)",com.fasterxml.jackson.databind.node;version="[2.10,3)",com.fasterxml.jackson.databind.ser;version="[2.10,3)",com.fasterxml.jackson.databind.type;version="[2.10,3)",com.fasterxml.jackson.databind.util;version="[2.10,3)",com.fasterxml.jackson.dataformat.yaml;version="[2.10,3)",com.fasterxml.jackson.datatype.jsr310;version="[2.10,3)",io.swagger.v3.

```
core.converter;version="[2.1,3)",io.swagger.v3.core.jackson;version="[2.1,3)",io.swagger.v3.core.jackson.mixin;version="[2.1,3)",io.swagger.v3.core.model;version="[2.1,3)",io.swagger.v3.core.util;version="[2.1,3)",io.swagger.v3.oas.annotations;version="[2.1,3)",io.swagger.v3.oas.annotations.enums;version="[2.1,3)",io.swagger.v3.oas.annotations.extensions;version="[2.1,3)",io.swagger.v3.oas.annotations.headers;version="[2.1,3)",io.swagger.v3.oas.annotations.info;version="[2.1,3)",io.swagger.v3.oas.annotations.links;version="[2.1,3)",io.swagger.v3.oas.annotations.media;version="[2.1,3)",io.swagger.v3.oas.annotations.servers;version="[2.1,3)",io.swagger.v3.oas.annotations.tags;version="[2.1,3)",io.swagger.v3.oas.models;version="[2.1,3)",io.swagger.v3.oas.models.callbacks;version="[2.1,3)",io.swagger.v3.oas.models.examples;version="[2.1,3)",io.swagger.v3.oas.models.headers;version="[2.1,3)",io.swagger.v3.oas.models.info;version="[2.1,3)",io.swagger.v3.oas.models.links;version="[2.1,3)",io.swagger.v3.oas.models.media;version="[2.1,3)",io.swagger.v3.oas.models.parameters;version="[2.1,3)",io.swagger.v3.oas.models.responses;version="[2.1,3)",io.swagger.v3.oas.models.security;version="[2.1,3)",io.swagger.v3.oas.models.servers;version="[2.1,3)",io.swagger.v3.oas.models.tags;version="[2.1,3)",javax.xml.bind.annotation;version="[2.3,3)",org.apache.commons.lang3;version="[3.7,4)",org.apache.commons.lang3.math;version="[3.7,4)",org.apache.commons.lang3.text;version="[3.7,4)",org.apache.commons.lang3.tuple;version="[3.7,4)",org.slf4j;version="[1.7,2)"
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.2.0.201903051501
url: https://github.com/swagger-api/swagger-core/modules/swagger-core
```

Found in path(s):

```
* /opt/cola/permits/1069435236_1608181328.2/0/swagger-core-2-1-2-jar/META-INF/MANIFEST.MF
```

1.130 swagger 2.1.2

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*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
```

```
jar/org/seedstack/swagger/internal/SwaggerJsonResource.java
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
jar/org/seedstack/swagger/internal/SwaggerProvider.java
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
jar/org/seedstack/swagger/SwaggerConfig.java
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
jar/org/seedstack/swagger/internal/SwaggerModule.java
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
jar/org/seedstack/swagger/internal/SwaggerPlugin.java
*
/opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
jar/org/seedstack/swagger/internal/SwaggerYamlResource.java
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
jar/org/seedstack/swagger/BaseReaderListener.java
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
jar/org/seedstack/swagger/internal/AbstractSwaggerResource.java
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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069435277_1594665061.85/0/swagger-2-1-2-sources-
jar/org/seedstack/swagger/SwaggerConfig.properties
```

1.131 jsonmerge 1.5.1

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jar/org/codehaus/jackson/JsonStreamContext.java  
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/Base64Variant.java  
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jar/org/codehaus/jackson/JsonParser.java  
*  
/opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/JsonFactory.java  
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jar/org/codehaus/jackson/JsonGenerator.java  
* /opt/ws_local/PERMITS_SQL/1078139193_1600436032.4/0/jackson-core-asl-1-9-2-sources-  
jar/org/codehaus/jackson/Base64Variants.java  
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 - * <https://github.com/takari/maven-wrapper>

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1.148 jctools-core 3.1.0

1.148.1 Available under license :

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

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>3.1.0</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

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  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>
```

```

<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>${junit.version}</version>
  <scope>test</scope>
</dependency>

<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava-testlib</artifactId>
  <version>${guava-testlib.version}</version>
  <scope>test</scope>
</dependency>
</dependencies>
<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-surefire-plugin</artifactId>
      <version>3.0.0-M3</version>
      <configuration>
        <includes>
          <include>*</include>
        </includes>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.felix</groupId>
      <artifactId>maven-bundle-plugin</artifactId>
      <version>4.2.1</version>
      <extensions>>true</extensions>
      <configuration>
        <instructions>
          <Import-Package>sun.misc;resolution:=optional</Import-Package>
        </instructions>
      </configuration>
    </plugin>
    <plugin>
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      <artifactId>maven-source-plugin</artifactId>
      <version>3.2.0</version>
      <executions>
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          <id>attach-sources</id>
          <phase>verify</phase>
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            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
</build>

```

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    </goals>
  </execution>
</executions>
</plugin>
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  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.1.1</version>
  <configuration>
    <additionalOptions>
      <additionalOption>-Xdoclint:none</additionalOption>
    </additionalOptions>
    <source>8</source>
  </configuration>
  <executions>
    <execution>
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      <goals>
        <goal>jar</goal>
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    </execution>
  </executions>
</plugin>
</plugins>
</build>

<distributionManagement>
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    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/?publish=1</url>
  </repository>
</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

<licenses>
  <license>
    <name>Apache
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<scm>
  <url>https://github.com/JCTools/JCTools</url>

```

```

<connection>scm:git:https://github.com/JCTools/JCTools</connection>
<tag>HEAD</tag>
</scm>

<developers>
<developer>
<url>https://github.com/nitsanw</url>
</developer>
<developer>
<url>https://github.com/mjpt777</url>
</developer>
<developer>
<url>https://github.com/RichardWarburton</url>
</developer>
<developer>
<url>https://github.com/kay</url>
</developer>
<developer>
<url>https://github.com/franz1981</url>
</developer>
</developers>

<prerequisites>
<maven>3.5.0</maven>
</prerequisites>

<properties>
<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>
</properties>
</project>

```

Found

in path(s):

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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

```
/*
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 *
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/Ordering.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MessagePassingQueueUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/Preference.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MessagePassingQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SupportsIterator.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscGrowArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
```


jar/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpScAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpScLinkedAtomicQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpmcArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/AbstractEntry.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpmcUnboundedXaddChunk.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMapLong.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeLongArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscBlockingConsumerArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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jar/org/jctools/maps/NonBlockingIdentityHashMap.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/InternalAPI.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/maps/NonBlockingHashSet.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/Pow2.java

```

* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java
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/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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jar/org/jctools/util/PortableJvmInfo.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/ConcurrentCircularArrayQueue.java
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jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
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jar/org/jctools/queues/MpscLinkedQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/UnsafeRefArrayAccess.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscCompoundQueue.java
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
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* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/MpscUnboundedArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-

```

jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
*
/opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/SpSCGrowableArrayQueue.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/util/RangeUtil.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815924_1601014602.33/0/jctools-core-3-1-0-sources-
jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

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1.150 backoff v1.0.0

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1.151 libyaml 0.2.5

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1.152 streadway-amqp 0.0.0-20190404075320-75d898a42a94

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1.153 toml 0.9.2

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1.154 websocket-client 9.4.18.v20190429

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

The following artifacts are EPL and ASL2.

* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javafx.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.155 websocket-common 9.4.18.v20190429

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* javax.servlet:javax.servlet-api

* javax.annotation:javax.annotation-api

* javax.transaction:javax.transaction-api

* javax.websocket:javax.websocket-api

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* java.sun.security.ssl

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org.apache.tomcat:tomcat-jasper-el
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1.157 async-timeout 3.0.1

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1.158 idna 2.10

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Found in path(s):

```
* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/LICENSE.rst
```

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```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
"""
```

```
import io, sys
```

```
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
```

```
    if python_version < (2,7):
```

```
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = { }
```

```
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
```

```
        'name': 'idna',
```

```
        'packages': ['idna'],
```

```
        'version': package_data['__version__'],
```

```
        'description': 'Internationalized Domain Names in Applications (IDNA)',
```

```
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
```

```
        'author': 'Kim Davies',
```

```
        'author_email': 'kim@cynosure.com.au',
```

```
        'license': 'BSD-like',
```

```
        'url': 'https://github.com/kjd/idna',
```

```
        'classifiers': [
```

```
            'Development Status :: 5 - Production/Stable',
```

```
            'Intended Audience :: Developers',
```

```
            'Intended Audience :: System Administrators',
```

```
            'License :: OSI Approved :: BSD License',
```

```
            'Operating System :: OS Independent',
```

```
            'Programming Language :: Python',
```

```
            'Programming Language :: Python :: 2',
```

```
            'Programming Language :: Python :: 2.7',
```

```
            'Programming Language :: Python :: 3',
```

```

'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Programming Language :: Python :: 3.7',
'Programming Language :: Python :: 3.8',
'Programming Language :: Python :: Implementation :: CPython',
'Programming Language :: Python :: Implementation :: PyPy',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
}

setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

* /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/setup.py

1.159 future 0.18.2

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A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4.1	2005	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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```
""" robotparser.py
```

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The robots.txt Exclusion Protocol is implemented as specified in <http://info.webcrawler.com/mak/projects/robots/norobots-rfc.html>

```
"""
```

1.160 urllib3 1.25.11

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```
# Contributions to the urllib3 project
```

```
## Creator & Maintainer
```

```
* Andrey Petrov <andrey.petrov@shazow.net>
```

Contributors

In chronological order:

- * victor.vde <<http://code.google.com/u/victor.vde/>>
 - * HTTPS patch (which inspired HTTPSConnectionPool)

- * erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
 - * NTLM-authenticated HTTPSConnectionPool
 - * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
 - * Client-verified SSL certificates for HTTPSConnectionPool
 - * Response gzip and deflate encoding support
 - * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
 - * Non-multipart encoding for POST requests

- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
 - * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
 - * Bugfixes, suggestions, Requests integration

- * georgemarshall <<https://github.com/georgemarshall>>
 - * Bugfixes, Improvements and Test coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
 - * Python 3 support

- * brandon-rhodes <<http://rhodesmill.org/brandon>>
 - * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
 - * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
 - * Support for explicitly closing pooled connections

- * hartator <hartator@gmail.com>
 - * Corrected multipart behavior for params

- * Thomas Weischuh <thomas@t-8ch.de>
 - * Support for TLS SNI
 - * API unification of ssl_version/cert_reqs
 - * SSL fingerprint and alternative hostname verification

- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield
<<https://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

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- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>
- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <<https://dbrgn.ch/>>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module

- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
 - * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
 - * Use the platform-specific CA certificate locations

- * Josh Schneier <https://github.com/jschneier>
 - * HTTPHeaderDict and associated tests and docs
 - * Bugfixes, docs, test coverage

- * Tahia Khan <http://tahia.tk/>
 - * Added Timeout examples in docs

- * Arthur Grunseid <https://grunseid.com>
 - * source_address support and tests (with https://github.com/bui)

- * Ian Cordasco <graffatcolmingov@gmail.com>
 - * PEP8 Compliance and Linting
 - * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
 - * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
 - * Google App Engine documentation

- * Aaron Meurer
<asmeurer@gmail.com>
 - * Added Url.url, which unparses a Url

- * Evgeny Kapun <abacabadabacaba@gmail.com>
 - * Bugfixes

- * Benjamin Meyer <bm_witness@yahoo.com>
 - * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
 - * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
 - * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
 - * Implemented generator for getting chunks from chunked responses.

- * tlynn <https://github.com/tlynn>

- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
 - * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>
 - * App Engine environment tests.
 - * Documentation re-write.

- * John Krauss <https://github.com/talos>
 - * Clues to debugging problems with `cryptography` dependency in docs

- * Disassem <https://github.com/Disassem>
 - * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>
 - * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>
 - * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>
 - * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 - * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 - * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <https://github.com/obi1kenobi>
 - * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <https://github.com/a-tal>
 - * Bugfix to ca_cert file paths.

- * Evan Meagher <https://evanmeagher.net>
 - * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>
 - * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@googlemail.com>
 - * Bugfix related to reusing connections in indeterminate states.

- * Ville Skytt <ville.skytta@iki.fi>
 - * Logging efficiency
 - improvements, spelling fixes, Travis config.

- * Shige Takeda <smtakeda@gmail.com>
 - * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

- * Jess Shapiro <jesse@jesseshapiro.net>
 - * Various character-encoding fixes/tweaks
 - * Disabling IPv6 DNS when IPv6 connections not supported

- * David Foster <http://dafoster.net/>
 - * Ensure order of request and response headers are preserved.

- * Jeremy Cline <jeremy@jcline.org>
 - * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
 - * History list to Retry object.
 - * HTTPResponse contains the last Retry object.

- * Nate Prewitt <nate.prewitt@gmail.com>
 - * Ensure timeouts are not booleans and greater than zero.
 - * Fixed infinite loop in ``stream`` when amt=None.
 - * Added length_remaining to determine remaining data to be read.
 - * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
 - * Created selectors backport that supports PEP 475.

- * Alexandre Dias <alex.dias@smarkets.com>
 - * Don't retry on timeout if method not in whitelist

- * Moinuddin Quadri <moin18@gmail.com>
 - * Lazily load idna package

- * Tom White <s6yg1ez3@mail2tor.com>
 - * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- * Tim Burke <tim.burke@gmail.com>
 - * Stop buffering entire deflate-encoded responses.

- * Tuukka Mustonen <tuukka.mustonen@gmail.com>
 - * Add counter for status_forcelist retries.

- * Erik Rose <erik@mozilla.com>
 - * Bugfix to pyopenssl vendoring

- * Wolfgang Richter <wolfgang.richter@gmail.com>
 - * Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
 - * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.

- * Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance; 2017-2018

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6

- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings

- * Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- * Remove Authorization header
regardless of case when redirecting to cross-site

- * James Meickle <https://permadeath.com/>
- * Improve handling of Retry-After header

- * Chris Jerdonek <chris.jerdonek@gmail.com>
- * Remove a spurious TypeError from the exception chain inside
HTTPConnectionPool._make_request(), also for BaseExceptions.

- * Jorge Lopez Silva <https://github.com/jalopezsilva>
- * Added support for forwarding requests through HTTPS proxies.

- * Benno Rice <benno@jeamland.net>

* Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()`.

* Keiichi Kobayashi <abok.1k@gmail.com>

* Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>

* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>

* Test improvements

* Chris Olufson <tycarac@gmail.com>

* Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <<https://github.com/bastiaanb>>

* Support for logging session keys

via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Your name or handle] <[email or website]>

* [Brief summary of your changes]

1.161 pika 0.13.1

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1.162 golang-protobuf-extensions v1.0.1

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1.163 dns-python 1.16.0

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1.164 error_prone_annotations 2.1.3

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```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/CheckReturnValue.java  
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-  
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java  
*
```

/opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/DoNotCall.java
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* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
*
/opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/NoAllocation.java
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```
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/ForOverride.java
*
/opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/Immutable.java
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jar/com/google/errorprone/annotations/RestrictedApi.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/CompatibleWith.java
*
/opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-
jar/com/google/errorprone/annotations/FormatMethod.java
```


* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/FormatString.java
* /opt/cola/permits/1112636230_1607122994.91/0/error-prone-annotations-2-1-3-sources-6-jar/com/google/errorprone/annotations/MustBeClosed.java

1.165 commons-lang3 3.7

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1.167 cookies 2.2.1

1.167.1 Available under license :

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```
from setuptools import setup, Command
from cookies import __version__

class Test(Command):
    user_options = []

    def initialize_options(self):
        pass

    def finalize_options(self):
        pass

    def run(self):
        try:
            import pytest
        except ImportError:
            raise AssertionError("Install py.test to run the tests")
        import sys, subprocess
        errno = subprocess.call([sys.executable, '-m', 'py.test'])
        raise SystemExit(errno)

setup(
    name="cookies",
    version=__version__,
    author="Sasha Hart",
    author_email="s@sashahart.net",
    url="https://github.com/sashahart/cookies",
    py_modules=['cookies', 'test_cookies'],
    description="Friendlier RFC 6265-compliant cookie parser/renderer",
    long_description=open('README').read(),
    classifiers=[
        "Development Status :: 4 - Beta",
        "Environment :: Other Environment",
        "Intended"
```

```

Audience :: Developers",
  "License :: OSI Approved :: MIT License",
  "Programming Language :: Python :: 2.6",
  "Programming Language :: Python :: 2.7",
  "Programming Language :: Python :: 3",
  "Programming Language :: Python :: 3.2",
  "Programming Language :: Python :: 3.3",
  "Programming Language :: Python :: Implementation :: PyPy",
  "Topic :: Software Development :: Libraries :: Python Modules",
],
cmdclass = {'test': Test},
)

```

Found in path(s):

```
* /opt/cola/permits/1120566945_1620798066.96/0/cookies-2-2-1-1-tar-gz/cookies-2.2.1/setup.py
```

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Metadata-Version: 1.1

Name: cookies

Version: 2.2.1

Summary: Friendlier RFC 6265-compliant cookie parser/renderer

Home-page: <https://github.com/sashahart/cookies>

Author: Sasha Hart

Author-email: s@sashahart.net

License: UNKNOWN

Description: What is this and what is it for?

cookies.py is a Python module for working with HTTP cookies: parsing and rendering 'Cookie:' request headers and 'Set-Cookie:' response headers, and exposing a convenient API for creating and modifying cookies. It can be used as a replacement of Python's Cookie.py (aka http.cookies).

Features

- * Rendering according to the excellent new RFC 6265 (rather than using a unique ad hoc format inconsistently relating to unrealistic, very old RFCs which everyone ignored). Uses URL encoding to represent

non-ASCII by default, like many other languages' libraries

- * Liberal parsing, incorporating many complaints about Cookie.py barfing on common cookie formats which can be reliably parsed (e.g. search 'cookie' on the Python issue tracker)

- * Well-documented code, with chapter and verse from RFCs (rather than arbitrary, undocumented decisions and huge tables of magic values, as you see in Cookie.py).

- * Test coverage at 100%, with a much more comprehensive test suite

than Cookie.py

* Single-source compatible with the following Python versions:

2.6, 2.7, 3.2, 3.3 and PyPy (2.7).

* Cleaner, less surprising API:

```
# old Cookie.py - this code is all directly from its docstring
>>> from Cookie import SmartCookie
>>> C = SmartCookie()
>>> # n.b. it's "smart" because it automatically pickles Python objects,
>>> # which is actually
quite stupid for security reasons!
>>> C["rocky"] = "road"
>>> C["rocky"]["path"] = "/cookie"
>>> # So C["rocky"] is a string, except when it's a dict...
>>> # and why do I have to write [""] to access a fixed set of attrs?
>>> # Look at the atrocious way I render out a request header:
>>> C.output(attrs=[], header="Cookie:")
'Cookie: rocky=road'
```

```
# new cookies.py
>>> from cookies import Cookies, Cookie
>>> cookies = Cookies(rocky='road')
>>> # Can also write explicitly: cookies['rocky'] = Cookie['road']
>>> cookies['rocky'].path = "/cookie"
>>> cookies.render_request()
'rocky=road'
```

* Friendly to customization, extension, and reuse of its parts.

Unlike Cookie.py, it doesn't lock all implementation inside its own classes (forcing you to write ugly wrappers as Django, Trac, Werkzeug/Flask,

web.py

and Tornado had to do). You can suppress minor parse exceptions with parameters rather than subclass wrappers. You can plug in your own parsers, renderers and validators for new or existing cookie attributes. You can render the data out in a dict. You can easily use the underlying imperative API or even lift the parser's regexps for your own parser or project. They are very well documented and relate directly to RFCs, so you know exactly what you are getting and why. It's MIT-licensed so do what you want (but I'd love to know what use you are getting from it!)

* One file, so you can just drop cookies.py into your project if you like

* MIT license, so you can use it in whatever you want with no strings

Things this is not meant to do

While this is intended to be a good module for handling cookies, it does not even try to do any of the following:

* Maintain backward compatibility with Cookie.py, which would mean inheriting its confusions and bugs

- * Implement RFCs 2109 or 2965, which have always been ignored by almost everyone and are now obsolete as well
- * Handle every conceivable output from terrible legacy apps, which is not possible to do without lots of silent data loss and corruption (the parser does try to be liberal as possible otherwise, though)
- * Provide a means to store pickled Python objects in cookie values (that's a big security hole)

This doesn't compete with the cookielib (<http://cookielib.org>) module in the Python standard library, which is specifically for implementing cookie storage and similar behavior in an HTTP client such as a browser. Things cookielib does that this doesn't:

- * Write to or read from browsers' cookie stores or other proprietary formats for storing cookie data in files
- * Handle the browser/client logic like deciding which cookies to send or discard, etc.

If you are looking for a cookie library but neither this one nor cookielib will help, you might also consider the implementations in WebOb or Bottle.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Environment :: Other Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):

* /opt/cola/permits/1120566945_1620798066.96/0/cookies-2-2-1-1-tar-gz/cookies-2.2.1/cookies.egg-info/PKG-INFO

*

/opt/cola/permits/1120566945_1620798066.96/0/cookies-2-2-1-1-tar-gz/cookies-2.2.1/PKG-INFO

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Found in path(s):

```
* /opt/cola/permits/1120566945_1620798066.96/0/cookies-2-2-1-1-tar-gz/cookies-2.2.1/cookies.py
```

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>>> from cookies import Cookies, Cookie
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```

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- * Handle the browser/client logic like deciding which cookies to send or discard, etc.

If you are looking for a cookie library but neither this one nor cookielib will help, you might also consider the implementations in WebOb or Bottle.

Found in path(s):

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1.168 oneofone-xxhash v1.2.2

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1.169 go-spew v1.1.1

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1.170 githubcomghodssyaml v1.0.0

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1.171 coreos-go-semver v0.3.0

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1.182 hashicorp-golang-lru v0.5.4

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1.183 logfmt v0.0.0-20140226030751- b84e30acd515

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```

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```
* /opt/cola/permits/1121676937_1610393508.65/0/github-com-kr-logfmt-zip/unquote.go
```

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Go package for parsing (and, eventually, generating)
log lines in the logfmt style.

See <http://godoc.org/github.com/kr/logfmt> for format, and other documentation and examples.

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1.184 githubcomhashicorp/hcl v1.0.0

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1.188 gobuffalo-logger v0.0.0-20190315122211-86e12af44bc2

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1.190 spf13-cobra v0.0.3

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1.191 xdg-stringprep v0.0.0-20180714160509-73f8eece6fdc

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1.192 scram v0.0.0-20180814205039-7eeb5667e42c

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1.193 snake-yaml 1.30

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1.198 st v0.0.0-20140626010706-e9e8d9816f32

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1.202 amqp v0.0.0-20190404075320-75d898a42a94

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1.203 go-restful v3.3.1

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1.204 gotool v1.0.0

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match.go, match_test.go:

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```
// Package misspell corrects commonly misspelled English words in source files.  
package misspell
```

```
// Legal provides licensing info.
```

```
const Legal = `
```

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* https://golang.org/pkg/strings/#Replacer
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* https://golang.org/src/strings/replace.go
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1.206 envy v1.7.0

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1.207 compress v1.9.5

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1.214 reactive-streams 1.0.3

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```
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-  
jar/org/reactivestreams/Publisher.java  
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-  
jar/org/reactivestreams/FlowAdapters.java  
*  
/opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-  
jar/org/reactivestreams/Processor.java  
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-  
jar/org/reactivestreams/Subscription.java  
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-  
jar/org/reactivestreams/Subscriber.java
```

1.215 commons-logging 1.2

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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/package.html
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* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogFactoryImpl.java
*

/opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/LogSource.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1135840457_1613613080.13/0/commons-logging-1-1-sources-9-jar/org/apache/commons/logging/Log.java

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1.216 commons-digester 1.8

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jar/org/apache/commons/digester/substitution/package.html
*
/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/xmlrules/package.html
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/parser/package.html
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/overview.html
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/strategies/package.html
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/xmlrules/digester-rules.dtd
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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/SetRootRule.java
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/* \$Id: DigesterRulesSource.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/DigesterRulesSource.java
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/* \$Id: RuleSetBase.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/RuleSetBase.java
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/* \$Id: RulesBase.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: RegexMatcher.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: BeanPropertySetterRule.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: GenericParser.java 471661 2006-11-06 08:09:25Z skitching \$

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```
/* $Id: FinderFromDfltClass.java 471661 2006-11-06 08:09:25Z skitching $
```

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*/
```

Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltClass.java

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```
/* $Id: PluginCreateRule.java 471661 2006-11-06 08:09:25Z skitching $
```

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/PluginCreateRule.java

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/* \$Id: VariableSubstitutor.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/substitution/VariableSubstitutor.java

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```
/* $Id: SimpleRegexMatcher.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/SimpleRegexMatcher.java
```

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```
/* $Id: PluginException.java 471661 2006-11-06 08:09:25Z skitching $
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```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/PluginException.java
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```
/* $Id: MultiVariableExpander.java 471661 2006-11-06 08:09:25Z skitching $
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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/substitution/MultiVariableExpander.java
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```
/* $Id: NodeCreateRule.java 472835 2006-11-09 09:59:53Z skitching $
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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/NodeCreateRule.java
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```
/* $Id: RuleLoader.java 471661 2006-11-06 08:09:25Z skitching $
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jar/org/apache/commons/digester/plugins/RuleLoader.java

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/* \$Id: SetNextRule.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/SetNextRule.java

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/* \$Id: PluginAssertionFailure.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/plugins/strategies/LoaderFromClass.java
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jar/org/apache/commons/digester/xmlrules/DigesterLoader.java
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/* \$Id: RulesFactory.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/RulesFactory.java
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jar/org/apache/commons/digester/PathCallParamRule.java

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/* \$Id: DigesterLoadingException.java 476205 2006-11-17 16:43:10Z dennisl \$

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/* \$Id: CallMethodRule.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/CallMethodRule.java

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/* \$Id: AbstractObjectCreationFactory.java 471661 2006-11-06 08:09:25Z skitching \$

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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/AbstractObjectCreationFactory.java

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/* \$Id: PluginDeclarationRule.java 472837 2006-11-09 10:07:51Z skitching \$

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jar/org/apache/commons/digester/plugins/PluginDeclarationRule.java
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/* \$Id: CircularIncludeException.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/CircularIncludeException.java
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/* \$Id: XercesParser.java 471661 2006-11-06 08:09:25Z skitching \$

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/parser/XercesParser.java

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/* \$Id: Rules.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: StackAction.java 476205 2006-11-17 16:43:10Z dennisl \$

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/* \$Id: LogUtils.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/LogUtils.java

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/* \$Id: FinderFromClass.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-

jar/org/apache/commons/digester/plugins/strategies/FinderFromClass.java

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```
/* $Id: ObjectCreateRule.java 471661 2006-11-06 08:09:25Z skitching $
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```

Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-  
jar/org/apache/commons/digester/ObjectCreateRule.java
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```
/* $Id: PluginConfigurationException.java 476205 2006-11-17 16:43:10Z dennisl $
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Found in path(s):

```
*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-  
jar/org/apache/commons/digester/plugins/PluginConfigurationException.java
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/* $Id: RuleFinder.java 471661 2006-11-06 08:09:25Z skitching $
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Found in path(s):

```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/RuleFinder.java
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/* $Id: FinderSetProperties.java 471661 2006-11-06 08:09:25Z skitching $
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```
* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/plugins/strategies/FinderSetProperties.java
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/* \$Id: AbstractRulesImpl.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/AbstractRulesImpl.java

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/* \$Id: PluginContext.java 476312 2006-11-17 20:59:09Z rahul \$

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jar/org/apache/commons/digester/plugins/PluginContext.java

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/* \$Id: Substitutor.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/Substitutor.java

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17 20:00:50Z rahul \$

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jar/org/apache/commons/digester/package.html

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/* \$Id: Digester.java 480169 2006-11-28 19:37:36Z rahul \$

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/* \$Id: FinderFromResource.java 471661 2006-11-06 08:09:25Z skitching \$

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/* \$Id: WithDefaultsRulesWrapper.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/WithDefaultsRulesWrapper.java

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/* \$Id: PluginInvalidInputException.java 476205 2006-11-17 16:43:10Z dennisl \$

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jar/org/apache/commons/digester/plugins/PluginInvalidInputException.java

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/* \$Id: LoaderSetProperties.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/plugins/strategies/FinderFromMethod.java
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/* \$Id: DigesterRuleParser.java 471661 2006-11-06 08:09:25Z skitching \$

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jar/org/apache/commons/digester/xmlrules/DigesterRuleParser.java
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/* \$Id: FinderFromDfltMethod.java 471661 2006-11-06 08:09:25Z skitching \$

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*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltMethod.java
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Found in path(s):

*/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/ExtendedBaseRules.java
No license file was found, but licenses were detected in source scan.

/* \$Id: RuleSet.java 471661 2006-11-06 08:09:25Z skitching \$
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/* \$Id: ObjectParamRule.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java
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/* \$Id: ParserFeatureSetterFactory.java 476205 2006-11-17 16:43:10Z dennisl \$

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/ParserFeatureSetterFactory.java
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/* \$Id: Declaration.java 471661 2006-11-06 08:09:25Z skitching \$

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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/plugins/Declaration.java

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```
/* $Id: XmlLoadException.java 471661 2006-11-06 08:09:25Z skitching $
```

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Found in path(s):

* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/xmlrules/XmlLoadException.java

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```
/* $Id: FromXmlRuleSet.java 471661 2006-11-06 08:09:25Z skitching $
```

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jar/org/apache/commons/digester/xmlrules/FromXmlRuleSet.java
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/* $Id: SetNestedPropertiesRule.java 472836 2006-11-09 10:06:56Z skitching $
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`/opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-jar/org/apache/commons/digester/SetNestedPropertiesRule.java`

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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
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* /opt/cola/permits/1135844707_1613613985.45/0/commons-digester-1-8-sources-5-
jar/org/apache/commons/digester/RegexRules.java
```


1.217 isorelax 20090621

1.217.1 Available under license :

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```
/*
 * @(#)Id: IslandSchemaReader.java,v 1.4 2001/11/01 00:11:45 kkawa Exp $
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Found in path(s):

```
*/
 * /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/IslandSchemaReader.java
```

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```
/*
 * @(#)Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
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* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/dispatcher/impl/IgnoredSchema.java

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* @(#) \$Id: AttributesDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp \$

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jar/org/iso_relax/dispatcher/AttributesDecl.java

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* @(#) \$Id: IslandVerifier.java,v 1.6 2003/05/30 23:46:32 kkawa Exp \$

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1.218 stax 4.2.1

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1.219 commons-codec 1.11

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1.221 commons-lang3 3.11

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 */
```

Found in path(s):

```
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Viewer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtPrimitiveType.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/MethodInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
```

```

jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Lex.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Executor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Symbol.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Pair.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/LocalVariableTypeAttribute.java
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*
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CodeConverter.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Translator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/AccessFlag.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ASTree.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-

```

```

jar/javassist/bytecode/StackMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Metalevel.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/NotFoundException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Variable.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/DeprecatedAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ASTList.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/CodeAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ClassFilePrinter.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Sample.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/AssignExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/MethodHandler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Expr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ConstPool.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyFactory.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/MethodDecl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/MemberResolver.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClassType.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/Declarator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/NoSuchClassError.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewMethod.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewConstructor.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/ControlFlow.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-

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jar/javassist/tools/rmi/RemoteRef.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/LoaderClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/StringL.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Descriptor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/CodeGen.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Frame.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/FieldInfo.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyObject.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/stackmap/TypeTag.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolRepositoryImpl.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/SubroutineScanner.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtMember.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/expr/ConstructorCall.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/SoftValueHashMap.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ParameterAnnotationsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/DotClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/IntQueue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPool.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/URLClassPath.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/SyntheticAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/ExprEditor.java

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ProceedHandler.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformNew.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformAccessArrayField.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AttributeInfo.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/Subroutine.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtField.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/DefinePackageHelper.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/LineNumberAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Expr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFile.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/Modifier.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationsWriter.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SyntaxError.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/framedump.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ByteStream.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformFieldAccess.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/BadHttpRequest.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/RemoteException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/BasicBlock.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformCall.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/SignatureAttribute.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/Callback.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotCreateException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/JvstCodeGen.java

- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformBefore.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Cflow.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/BadBytecode.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/TypeData.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ExceptionsAttribute.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AnnotationsAttribute.java
- *
- /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/MethodFilter.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/DuplicateMemberException.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/NestHostAttribute.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPool.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPoolTail.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassPath.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/HotSwapper.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformNewClass.java
- *
- /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/SourceFileAttribute.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/SecurityActions.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/TypeChecker.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/ClassMap.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/FieldDecl.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/LongVector.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/web/Webserver.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtMethod.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFileWriter.java
- *
- /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Stmnt.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Sample.java
- * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/RuntimeSupport.java

* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/SerializedProxy.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/HotSwapAgent.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/Parser.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/NewArray.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/IntConst.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/Reflection.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/MemberCodeGen.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/rmi/ObjectImporter.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/scopedpool/ScopedClassPoolRepository.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/Transformer.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Cast.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/reflect/CannotInvokeException.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ConstantAttribute.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformWriteField.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtBehavior.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SymbolTable.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/MultiType.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/TypedBlock.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Keyword.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/stackmap/Tracer.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Member.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/NewExpr.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Desc.java
 *
 /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewWrappedConstructor.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/FactoryHelper.java
 * /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-

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jar/javassist/compiler/ast/NewExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtConstructor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/ObjectNotFoundException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/Mnemonic.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/CastExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/EnclosingMethodAttribute.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtArray.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/convert/TransformAfter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Analyzer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/ExceptionTable.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/DoubleConst.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/CodeAnalyzer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Util.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/Proxy.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/analysis/Type.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/CtNewWrappedMethod.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/util/proxy/ProxyObjectInputStream.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/KeywordTable.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/NestMembersAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-

```

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jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/LocalVariableAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/CannotReflectException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/CallExpr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Compiler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/tools/Dump.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/CodeIterator.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Instanceof.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/AnnotationDefaultAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Inner.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/scopedpool/ScopedClassPoolFactory.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/Opcodes.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/Handler.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtClass.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/compiler/ast/InstanceOfExpr.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/SerialVersionUID.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/expr/FieldAccess.java
No license file was found, but licenses were detected in source scan.

/*
* Javassist, a Java-bytecode translator toolkit.
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*/

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Found in path(s):

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ByteMemberValue.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
*
/opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-
jar/javassist/bytecode/annotation/DoubleMemberValue.java

```

1.223 jakarta-validation-api 2.0.2

1.223.1 Available under license :

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

```

/*
* Jakarta Bean Validation API
*
* License: Apache License, Version 2.0
* See the license.txt file in the root directory or <http://www.apache.org/licenses/LICENSE-2.0>.
*/

```

Found in path(s):

- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/FutureOrPresent.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
- *
- /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ExecutableDescriptor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/Default.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/package-info.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/Unwrapping.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/ValidationTarget.java
- *
- /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodDescriptor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/package-info.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/UnwrapByDefault.java
- * /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NegativeOrZero.java
- *
- /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/ValidationProvider.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ElementKind.java

*

/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/GroupConversionDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ExtractedValue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/GenericBootstrap.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/MethodType.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDeclarationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstructorDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/package-info.java

*

/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertTrue.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Path.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/PositiveOrZero.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/ValueExtractorDefinitionException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/BootstrapConfiguration.java

*

/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ElementDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerElementTypeDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

jar/javax/validation/GroupDefinitionException.java
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jar/javax/validation/constraints/Min.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/metadata/Scope.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Max.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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jar/javax/validation/metadata/ReturnValueDescriptor.java
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jar/javax/validation/ParameterNameProvider.java
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jar/javax/validation/constraints/Pattern.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/NoProviderFoundException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Validation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ValidatorContext.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotBlank.java
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/package-info.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Configuration.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/executable/ValidateOnExecution.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/ConstraintViolationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/TraversableResolver.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableValidator.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationProviderResolver.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidatorFactory.java

*

/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ContainerDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ConstraintDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ParameterDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NotNull.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/package-info.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/GroupSequence.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Negative.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorFactory.java

*

/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ValidationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/OverridesAttribute.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/spi/BootstrapState.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Email.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDeclarationException.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/PropertyDescriptor.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidator.java

*

/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/executable/ExecutableType.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/AssertFalse.java

* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-

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jar/javax/validation/constraints/Future.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Positive.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/NotEmpty.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/spi/ConfigurationState.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/Payload.java
*
/opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/DecimalMin.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-
jar/javax/validation/constraints/Past.java
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```

~ Jakarta Bean Validation API

~

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<![CDATA[

Comments to: <<mailto:bean-validation-dev@eclipse.org>>bean-validation-dev@eclipse.org.

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```
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/META-
INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
```

1.224 bson 4.0.5

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 - * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
 - * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
 - *
 - * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/IdGenerators.java
 - * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonCodecProvider.java
 - * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/IdGenerator.java
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- * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/util/CopyOnWriteMap.java
 - * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/assertions/Assertions.java
 - * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/util/AbstractCopyOnWriteMap.java
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/jsr310/LocalDateCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/jsr310/Js310CodecProvider.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/jsr310/LocalTimeCodec.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/jsr310/InstantCodec.java

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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/LazyMissingCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/BsonUndefinedCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-

```

jar/org/bson/internal/ProvidersCodecRegistry.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonInt32.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonUndefined.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/configuration/CodecProvider.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonStreamBuffer.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/io/ByteBufferBsonInput.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/ObjectIdCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/AtomicLongCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonValueCodec.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonDateTime.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonInt32Codec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ShellMinKeyConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BinaryCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ShellBinaryConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/package-info.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/internal/CodecRegistryHelper.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ExtendedJsonMinKeyConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/BSONTimestamp.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonSymbol.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/IterableCodecProvider.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/JsonJavaScriptConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/io/BsonOutput.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ExtendedJsonDateTimeConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/CreatorExecutable.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/BsonBinaryCodec.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonString.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-

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jar/org/bson/codecs/BsonDateTimeCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/internal/OverridableUuidRepresentationCodecRegistry.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/Bits.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonWriter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/BsonTimestampCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/ByteBufferIO.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/InstanceCreatorFactory.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/MinKey.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonTimestamp.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/Decimal128Codec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonWriterSettings.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/internal/CodecCache.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/StrictCharacterStreamJsonWriter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ExtendedJsonInt32Converter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ShellDateTimeConverter.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/ObjectIdGenerator.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/configuration/CodecRegistry.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/io/BsonInputMark.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonParseException.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonReader.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/RawBsonArray.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ShellTimestampConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonArrayCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/configuration/CodecConfigurationException.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/LazyBSONObject.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ShellDecimal128Converter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java

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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/ByteArrayCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/AbstractBsonWriter.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonTypeClassMap.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/SymbolCodec.java
 *
 /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/ExtendedJsonUndefinedConverter.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/PatternCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/ByteBuf.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/FieldNameValidator.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/util/package-info.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/CodeWScope.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonStringCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/Conventions.java
 *
 /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/internal/Base64.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/ExtendedJsonDoubleConverter.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/annotations/BsonId.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonType.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/package-info.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/Transformer.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/LazyPojoCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonDocumentCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonMaximumSizeExceededException.java
 *
 /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/package-info.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/CodeWithScope.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/UuidCodecHelper.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonDouble.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/MapCodecProvider.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/conversions/package-info.java


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*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/jsr310/package-
info.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/io/package-info.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/BigDecimalCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/json/ExtendedJsonTimestampConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/DocumentCodecProvider.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/diagnostics/package-info.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/Binary.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/BsonSerializationException.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/ObjectId.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonBinaryWriter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/OverridableUuidRepresentationCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonBuffer.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/TypeData.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/BasicBSONList.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonReaderMark.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/UuidRepresentation.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/BsonDecimal128Codec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonDocument.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonInt64.java
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/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/EmptyBSONCallback.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BasicBSONCallback.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/TypeParameterMap.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BasicBSONEncoder.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/UuidCodecProvider.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/IntegerCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/DecoderContext.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/IdGenerator.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/NoOpFieldNameValidator.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/BsonBooleanCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/PojoCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/BsonMaxKeyCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-

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jar/org/bson/codecs/pojo/PropertyCodecProvider.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/FloatCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/assertions/package-info.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BSONCallbackAdapter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonStringConverter.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonMinKey.java
*
/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/PropertyMetadata.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonTokenType.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonDbPointer.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/AtomicIntegerCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/RawBsonDocumentCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonReader.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonBinary.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonRegularExpression.java
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jar/org/bson/codecs/BsonObjectIdCodec.java
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/opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/LazyBSONDecoder.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/ClassModel.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/codecs/pojo/PropertyAccessor.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/RawBsonValueHelper.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/Either.java
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jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/Decimal128.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/RawBsonDocument.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/StringRangeSet.java

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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/Decoder.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/MaxKey.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/diagnostics/SLF4JLogger.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonDocumentWrapperCodec.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonBinaryReader.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonJavaScript.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/Document.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/internal/UuidHelper.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BSONDecoder.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonNullConverter.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonDBPointerCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonBoolean.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/package-info.java
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 *
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/AtomicBooleanCodec.java
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BSONException.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/package-info.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/Symbol.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/LazyBSONCallback.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/LongCodec.java
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/io/BsonInput.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/AbstractBsonReader.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonBinarySubType.java
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonObjectId.java

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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonBinaryWriterSettings.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonMaxKey.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonDocumentWriter.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonSymbolCodec.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonDecimal128.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/io/OutputBuffer.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/Convention.java

* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/MaxKeyCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonToken.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BSONCallback.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/annotations/package-info.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/configuration/CodecRegistries.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/CharacterCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonNull.java
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 /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/internal/LazyCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BSONEncoder.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonSymbolConverter.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/io/BasicOutputBuffer.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonDoubleCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/ClassModelBuilder.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/ByteCodec.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/Converter.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
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 /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/conversions/Bson.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/PojoCodecProvider.java
 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/pojo/InstanceCreatorFactoryImpl.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BsonArray.java
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 * /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/ShellObjectIdConverter.java

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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/MapCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/types/Code.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/BsonNullCodec.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/BasicBSONObject.java
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
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* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/codecs/Encoder.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/util/Function.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/json/JsonMode.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-
jar/org/bson/internal/CycleDetectingCodecRegistry.java
* /opt/cola/permits/1135887302_1613625706.97/0/bson-4-0-5-sources-1-jar/org/bson/diagnostics/NoOpLogger.java

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1.225 asm 3.1

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java
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/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodWriter.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/MethodAdapter.java
* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/util/TraceMethodVisitor.java
*
/opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/SourceValue.java
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* /opt/cola/permits/1135891771_1613626596.19/0/asm-all-3-1-sources-1-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java

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1.229 spring-expression 5.1.6.RELEASE

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```
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jar/org/springframework/expression/spel/ast/MethodReference.java
* /opt/cola/permits/1135936070_1613638981.32/0/spring-expression-5-1-6-release-sources-2-
jar/org/springframework/expression/spel/ast/InlineMap.java
*
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jar/org/springframework/expression/spel/ast/CompoundExpression.java
* /opt/cola/permits/1135936070_1613638981.32/0/spring-expression-5-1-6-release-sources-2-
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/opt/cola/permits/1135936070_1613638981.32/0/spring-expression-5-1-6-release-sources-2-jar/org/springframework/expression/Operation.java
* /opt/cola/permits/1135936070_1613638981.32/0/spring-expression-5-1-6-release-sources-2-jar/org/springframework/expression/spel/ast/LongLiteral.java
* /opt/cola/permits/1135936070_1613638981.32/0/spring-expression-5-1-6-release-sources-2-jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
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* /opt/cola/permits/1135936070_1613638981.32/0/spring-expression-5-1-6-release-sources-2-jar/org/springframework/expression/spel/standard/SpelCompiler.java
* /opt/cola/permits/1135936070_1613638981.32/0/spring-expression-5-1-6-release-sources-2-jar/org/springframework/expression/ExpressionException.java
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jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
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jar/org/springframework/expression/spel/SpelParserConfiguration.java
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jar/org/springframework/expression/spel/ast/OpMinus.java
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jar/org/springframework/expression/spel/SpelParseException.java
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* /opt/cola/permits/1135936070_1613638981.32/0/spring-expression-5-1-6-release-sources-2-jar/org/springframework/expression/ConstructorResolver.java
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1.230 httpcomponents-core 4.4.11

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1.232 joda-time 2.9.1

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1.235 joda-time 2.10.1

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/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/ShouldNeverHappenException.java

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* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/glob/WildcardPath.java

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/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/glob/GlobNode.java

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* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/ByteBufferInputStream.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/glob/GlobExpander.java

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/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/BytesUtils.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/bytes/LittleEndianDataOutputStream.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/ParquetRuntimeException.java

* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-jar/org/apache/parquet/Closeables.java

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jar/org/apache/parquet/Exceptions.java
*
/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/io/PositionOutputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/hadoop/metadata/CompressionCodecName.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/bytes/MultiBufferInputStream.java
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jar/org/apache/parquet/io/DelegatingSeekableInputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/io/InputFile.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/io/OutputFile.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/io/SeekableInputStream.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/io/DelegatingPositionOutputStream.java
*
/opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/hadoop/codec/CompressionCodecNotSupportedException.java
* /opt/cola/permits/1136206342_1613708930.97/0/parquet-common-1-10-0-sources-1-
jar/org/apache/parquet/compression/CompressionCodecFactory.java
```

1.240 parquet-column 1.10.0

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Found in path(s):

- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/ReactiveTransaction.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java
- *
- /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/TransactionManager.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/AbstractTransactionStatus.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/TransactionDefinition.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionCallback.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorImpl.java
- *
- /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/Propagation.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/TransactionStatus.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java
- *
- /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/event/ApplicationListenerMethodTransactionalAdapter.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionContextManager.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationManager.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
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/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionContext.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/GenericReactiveTransaction.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/DefaultTransactionStatus.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/AbstractTransactionManagementConfiguration.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/TransactionOperations.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/TransactionExecution.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionSynchronization.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationUtils.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java
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* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/CannotCreateTransactionException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/DeadlockLoserDataAccessException.java

*

/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/RecoverableDataAccessException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/DuplicateKeyException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/IllegalTransactionStateException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/PermissionDeniedDataAccessException.java

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/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/CleanupFailureDataAccessException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/UnexpectedRollbackException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/DataIntegrityViolationException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/TransactionTimedOutException.java

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/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-

jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/NoTransactionException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/TypeMismatchDataAccessException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/CannotSerializeTransactionException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/QueryTimeoutException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/ResourceTransactionManager.java
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/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/TransientDataAccessResourceException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/InvalidResultSetAccessException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/EmptyResultDataAccessException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/CannotAcquireLockException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/TransactionException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/work/DelegatingWork.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/TransactionUsageException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/jta/TransactionFactory.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/PessimisticLockingFailureException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/InvalidIsolationLevelException.java
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* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/SmartTransactionObject.java
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* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/jca/cci/core/RecordCreator.java
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- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/jca/work/WorkManagerTaskExecutor.java
- *
- /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/AbstractReactiveTransactionManager.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/ReactiveTransactionManager.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/SimpleTransactionScope.java
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- /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/TransactionManagementConfigurer.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/reactive/TransactionalOperator.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/PlatformTransactionManager.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
- *
- /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/event/TransactionalEventListener.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
- * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java

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* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/jca/cci/core/CciOperations.java

*

/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/event/TransactionPhase.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/DataAccessResourceFailureException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/TransientDataAccessException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/ConcurrencyFailureException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java

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* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/dao/DataRetrievalFailureException.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-

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jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/OptimisticLockingFailureException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/object/EisOperation.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/support/SimpleBootstrapContext.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/TransactionSystemException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/NonTransientDataAccessResourceException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/DataAccessException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/UncategorizedDataAccessException.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/NonTransientDataAccessResourceException.java
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```
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/core/InteractionCallback.java
```

*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/support/DaoSupport.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/context/SpringContextResourceAdapter.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/annotation/Isolation.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/jta/JtaTransactionManager.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/core/CciTemplate.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/annotation/TransactionManagementConfigurationSelector.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/TransactionSynchronization.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/CannotCreateRecordException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/object/MappingRecordOperation.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/support/DataAccessUtils.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/HeuristicCompletionException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/InvalidTimeoutException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/ResourceHolderSupport.java

* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/interceptor/DefaultTransactionAttribute.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/interceptor/RollbackRuleAttribute.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/support/LocalConnectionFactoryBean.java
 *
 /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/support/SimpleTransactionStatus.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/work/SimpleTaskWorkManager.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/cci/core/RecordExtractor.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/config/AnnotationDrivenBeanDefinitionParser.java
 *
 /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/cci/core/ConnectionCallback.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/context/BootstrapContextAware.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/cci/connection/ConnectionHolder.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
 *
 /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/jca/cci/connection/SingleConnectionFactory.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/jta/JtaTransactionObject.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
 jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java
 * /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-


```
jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/TransactionTemplate.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java
*
/opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/support/TransactionCallback.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/CannotGetCciConnectionException.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/jca/cci/CciOperationNotSupportedException.java
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```
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /opt/cola/permits/1136334290_1613745106.93/0/spring-tx-5-2-13-release-sources-
jar/org/springframework/transaction/interceptor/TransactionalProxy.java
```

1.243 curator-client 2.12.0

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```

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1.249 spring-aop 5.1.6.RELEASE

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```
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jar/org/springframework/aop/RawTargetAccess.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/SpringProxy.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/AfterAdvice.java
*
/opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/BeforeAdvice.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/framework/AdvisedSupportListener.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/config/AspectEntry.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/IntroductionInterceptor.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
```

jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
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```
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jar/org/springframework/aop/support/AopUtils.java  
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/framework/Advised.java  
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/support/ComposablePointcut.java  
*  
/opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/framework/DefaultAdvisorChainFactory.java  
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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/IntroductionAwareMethodMatcher.java  
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/framework/JdkDynamicAopProxy.java  
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/framework/ProxyCreatorSupport.java  
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/TruePointcut.java  
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/framework/AdvisorChainFactory.java  
*  
/opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java  
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-  
jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
```


* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java
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 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/framework/AbstractAdvisingBeanPostProcessor.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/aopalliance/intercept/ConstructorInvocation.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/support/Pointcuts.java
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 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/TrueMethodMatcher.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/target/CommonsPool2TargetSource.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
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 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/framework/CglibAopProxy.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/config/AopNamespaceUtils.java
 * /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/interceptor/ExposeBeanNameAdvisors.java
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jar/org/springframework/aop/support/StaticMethodMatcher.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
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jar/org/springframework/aop/framework/adapter/DefaultAdvisorAdapterRegistry.java
*

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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/MethodMatcher.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/support/RegexpMethodPointcutAdvisor.java
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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/framework/ProxyFactoryBean.java
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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceInterceptor.java
*
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* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/target/HotSwappableTargetSource.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/support/MethodMatchers.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
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jar/org/springframework/aop/ClassFilter.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/target/ThreadLocalTargetSource.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/aopalliance/intercept/Joinpoint.java
*
/opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/aopalliance/intercept/Invocation.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java

```
*
/opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/aopalliance/intercept/MethodInvocation.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/framework/ProxyFactory.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1136662496_1613849771.44/0/spring-aop-5-1-6-release-sources-2-
jar/org/aopalliance/aop/Advice.java
```

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```
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jar/org/springframework/aop/ThrowsAdvice.java
```

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- * /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-

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* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/FactoryBeanNotInitializedException.java
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* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/PropertyValue.java

* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/ManagedList.java

* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/FactoryBean.java

* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java

* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/AbstractPropertyAccessor.java

* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-

jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/BeanDefinitionReaderUtils.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/Aware.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/BeanDefinitionValueResolver.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/parsing/ParseState.java
*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/config/DestructionAwareBeanPostProcessor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/SimpleSecurityContextProvider.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/BeanFactoryExtensions.kt
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/BeanDefinitionBuilder.java
*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/config/InstantiationAwareBeanPostProcessor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/annotation/Autowired.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/propertyeditors/CustomBooleanEditor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/ObjectFactory.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/DirectFieldAccessor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
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*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-

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jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/ManagedArray.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/InvalidPropertyException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/propertyeditors/PathEditor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java
*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/MethodOverrides.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/annotation/BeanFactoryAnnotationUtils.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
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* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/ExtendedBeanInfo.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
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jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/xml/XmlBeanFactory.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
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* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/BeanDefinitionResource.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/BeanWrapperImpl.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/config/FieldRetrievingFactoryBean.java
*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/BeanCreationException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/MergedBeanDefinitionPostProcessor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/support/InstantiationStrategy.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java

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* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/PropertyBatchUpdateException.java
*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/MutablePropertyValues.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomNumberEditor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/annotation/AutowiredAnnotationBeanPostProcessor.java
*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/ObjectProvider.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
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* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/config/ConstructorArgumentValues.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/AbstractBeanFactory.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/BeanNotOfRequiredTypeException.java
*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/CglibSubclassingInstantiationStrategy.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/PropertyAccessorFactory.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/AutowireCandidateResolver.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/PropertyMatches.java
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/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/BeanDefinitionOverrideException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/config/ConfigurableBeanFactory.java

* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/xml/DefaultBeanDefinitionDocumentReader.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/propertyeditors/CustomDateEditor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/BeanUtils.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/BeanInstantiationException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/support/PropertyComparator.java
*

/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/CachedIntrospectionResults.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/factory/config/CustomEditorConfigurer.java
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*
/opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-

jar/org/springframework/beans/BeanInfoFactory.java
* /opt/cola/permits/1136662643_1613850041.86/0/spring-beans-5-1-6-release-sources-1-
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```

Found in path(s):

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/export/MBeanExportException.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/event/ContextClosedEvent.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/EnableMBeanExport.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/access/MBeanConnectFailureException.java
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jar/org/springframework/scheduling/Trigger.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
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*
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jar/org/springframework/validation/BindingErrorProcessor.java
```


* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/JmxException.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
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 *
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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/ui/context/support/UiApplicationContextUtils.java
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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/ScopeMetadata.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/rmi/RmiInvocationHandler.java
 *
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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/soap/SoapFaultException.java
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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scheduling/TriggerContext.java
 *
 /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/access/InvocationFailureException.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/config/SpringConfiguredBeanDefinitionParser.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/validation/MessageCodesResolver.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/RemoteLookupFailureException.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-

jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/ui/context/ThemeSource.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/ejb/access/EjbAccessException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jndi/JndiLookupFailureException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/event/ContextStartedEvent.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/export/naming/SelfNaming.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/remoting/RemoteProxyFailureException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/event/ApplicationContextEvent.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scripting/ScriptSource.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/support/LiveBeansViewMBean.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/ui/context/Theme.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/ApplicationContextException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scheduling/SchedulingException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/Phased.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/event/ContextStoppedEvent.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/export/MBeanExporterListener.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/export/assembly/MBeanInfoAssembler.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/access/InvalidInvocationException.java

*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/rmi/RmiBasedExporter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/event/ContextRefreshedEvent.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/Formatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/ assembler/AutodetectCapableMBeanInfoAssembler.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/ui/context/support/SimpleTheme.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/FormatterRegistrar.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/RemoteInvocationFailureException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/ApplicationContextAware.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/validation/BindingResultUtils.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/support/DefaultRemoteInvocationFactory.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationTraceInterceptor.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/ApplicationEventPublisherAware.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/ImportAware.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/PropertySources.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
```

jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/interceptor/BasicOperation.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scheduling/config/ContextLifecycleScheduledTaskRegistrar.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/validation/annotation/Validated.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/CacheManager.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/ApplicationContext.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scheduling/annotation/AsyncConfigurerSupport.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/validation/beanvalidation/MessageSourceResourceBundleLocator.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/format/AnnotationFormatterFactory.java
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jar/org/springframework/ui/ModelMapExtensions.kt
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/ui/ModelExtensions.kt
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*/
/**
* { @link FactoryBean } that obtains a WebSphere { @link javax.management.MBeanServer }
* reference through WebSphere's proprietary { @code AdminServiceFactory } API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the { @code MBeanServer } for bean references.
* This FactoryBean is a direct alternative
* to { @link MBeanServerFactoryBean },
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* <p>See the javadocs for WebSphere's
* <a href="https://bit.ly/UzccDt">{ @code AdminServiceFactory }</a>
* and <a href="https://bit.ly/TRIX2r">{ @code MBeanFactory }</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/

```

Found in path(s):

```

* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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- * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/SpringModelMBean.java

*

- * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationFactory.java

- * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java

- * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java

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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/LocalDateParser.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/i18n/TimeZoneAwareLocaleContext.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/LocalDateTimeParser.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/FilterType.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/Lazy.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/ScopedProxyMode.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scheduling/support/TaskUtils.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/LocalTimeParser.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/ImportSelector.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/MillisecondInstantPrinter.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/Description.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/i18n/LocaleContext.java

* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/support/MessageSourceResourceBundle.java

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*/

/**

* Indicates that a component is only eligible for registration when all

* { @linkplain #value specified conditions } match.

*

* <p>A condition is any state that can be determined programmatically

* before the bean definition is due to be registered (see { @link Condition } for details).

*

*

<p>The { @code @Conditional } annotation may be used in any of the following ways:

*

* as a type-level annotation on any class directly or indirectly annotated with

* { @code @Component }, including { @link Configuration @Configuration } classes

* as a meta-annotation, for the purpose of composing custom stereotype

* annotations

* as a method-level annotation on any { @link Bean @Bean } method

*

*

* <p>If a { @code @Configuration } class is marked with { @code @Conditional },

* all of the { @code @Bean } methods, { @link Import @Import } annotations, and

* { @link ComponentScan @ComponentScan } annotations associated with that

* class will be subject to the conditions.

*

* <p>NOTE: Inheritance of { @code @Conditional } annotations

* is not supported; any conditions from superclasses or from overridden

* methods will not be considered. In order to enforce these semantics,

* { @code @Conditional } itself is not declared as

* { @link java.lang.annotation.Inherited

@Inherited }; furthermore, any

* custom composed annotation that is meta-annotated with

```
* { @code @Conditional } must not be declared as { @code @Inherited }.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

Found in path(s):

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
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```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/validation/DataBinder.java
```

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scripting/support/StandardScriptFactory.java
```

```
/*
```

```
/* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/DeferredImportSelector.java
```

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/interceptor/CompositeCacheOperationSource.java
```

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/event/EventListenerMethodProcessor.java
```

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
```

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/event/AbstractApplicationEventMulticaster.java
```

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/interceptor/CacheOperationSource.java
```

```
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
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jar/org/springframework/context/ResourceLoaderAware.java
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/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/support/SimpleThreadScope.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/ConfigurationClassPostProcessor.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/support/ResourceBundleMessageSource.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/ConfigurationClassParser.java
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jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
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jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedMetric.java
*
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/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scripting/support/StandardScriptEvalException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/ComponentScans.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/cache/annotation/CacheConfig.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/MonthDayFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/RemoteTimeoutException.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scripting/config/LangNamespaceHandler.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/PayloadApplicationEvent.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/Role.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedResource.java
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/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedNotification.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/DurationFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/number/PercentStyleFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scripting/ScriptEvaluator.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/export/annotation/ManagedOperationParameters.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scheduling/support/CronTrigger.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/joda/PeriodFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-

jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/event/EventListenerFactory.java
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jar/org/springframework/context/annotation/MBeanExportConfiguration.java
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jar/org/springframework/context/annotation/ConfigurationClassUtils.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/ui/Model.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/instrument/classloading/weblogic/WebLogicClassLoaderAdapter.java
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/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/support/MessageSourceAccessor.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/scheduling/annotation/AsyncAnnotationAdvisor.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/cache/interceptor/CacheOperationInvocationContext.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
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jar/org/springframework/validation/MessageCodeFormatter.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scheduling/concurrent/ScheduledExecutorFactoryBean.java

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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/validation/AbstractErrors.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/support/DefaultFormattingConversionService.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/AnnotationConfigApplicationContext.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/annotation/ConfigurationMethod.java
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- * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
- * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/instrument/classloading/weblogic/WebLogicClassPreProcessorAdapter.java
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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
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 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
 *
 /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/cache/support/SimpleCacheManager.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/context/i18n/SimpleTimeZoneAwareLocaleContext.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/jndi/TypeMismatchNamingException.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/validation/support/BindingAwareModelMap.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/scheduling/config/TaskExecutorFactoryBean.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/ui/ExtendedModelMap.java
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 /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/context/annotation/ContextAnnotationAutowireCandidateResolver.java
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 jar/org/springframework/validation/DefaultMessageCodesResolver.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
 jar/org/springframework/context/support/ConversionServiceFactoryBean.java
 * /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-

jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/export/NotificationListenerBean.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/format/datetime/joda/JodaDateTimeFormatAnnotationFormatterFactory.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/support/StaticApplicationContext.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scripting/groovy/GroovyScriptFactory.java
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jar/org/springframework/cache/annotation/Caching.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/annotation/CacheEvict.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/event/EventListener.java
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/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/annotation/Cacheable.java
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/support/AbstractCacheManager.java

* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/context/ApplicationEventPublisher.java

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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/cache/support/CompositeCacheManager.java

* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java

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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/remoting/rmi/RmiClientInterceptorUtils.java

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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-jar/org/springframework/format/datetime/standard/PeriodFormatter.java

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*

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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/context/annotation/ComponentScan.java
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jar/org/springframework/scheduling/TaskScheduler.java
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jar/org/springframework/format/Printer.java
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jar/org/springframework/instrument/classloading/weblogic/WebLogicLoadTimeWeaver.java
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jar/org/springframework/jndi/JndiPropertySource.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/scheduling/annotation/Schedules.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
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* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/interceptor/KeyGenerator.java
*
/opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/format/datetime/standard/InstantFormatter.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/interceptor/CacheEvaluationContext.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jmx/support/RegistrationPolicy.java
* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/jndi/JndiLocatorDelegate.java
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/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/

```

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```

* /opt/cola/permits/1136663287_1613850459.06/0/spring-context-5-1-6-release-sources-1-
jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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jar/org/springframework/jmx/export/metadata/ManagedOperation.java

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1.255 flink-shaded-asm-6 6.2.1-6.0

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ASM: a very small and fast Java bytecode manipulation framework

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ASM: a very small and fast Java bytecode manipulation framework

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1.257 asm 6.2.1

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- * /opt/cola/permits/1137146668_1614022556.85/0/asm-6-2-1-sources-4-jar/org/objectweb/asm/SymbolTable.java
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- *
- /opt/cola/permits/1137146668_1614022556.85/0/asm-6-2-1-sources-4-jar/org/objectweb/asm/Attribute.java
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1.258 hadoop-mapreduce-client-core 2.7.3

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*/

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in src/main/native/src/org/apache/hadoop/util:

```
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```

For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

```
/*  
LZ4 - Fast LZ compression algorithm  
Header File  
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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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org.eclipse.jetty.toolchain:jetty-schemas

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1.259 hadoop-hdfs 2.7.3

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 */
```


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```
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Header File
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```
*/
```

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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For:

hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2
hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap.min.css
hadoop-tools/hadoop-sls/src/main/html/css/bootstrap-responsive.min.css
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Mockito 1.8.5

SLF4J 1.7.10

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- * java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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

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

MortBay

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- org.mortbay.jasper:apache-jsp
- org.apache.tomcat:tomcat-jasper
- org.apache.tomcat:tomcat-juli

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

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org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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- * Alec Wysoker
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/*

LZ4 - Fast LZ compression algorithm

Header File

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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1.261 hadoop-mapreduce-client-jobclient

2.7.3

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For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

```
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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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 */
```

For portions of the native implementation of slicing-by-8 CRC calculation in src/main/native/src/org/apache/hadoop/util:

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4hc.h,lz4hc.c},

/*

LZ4 - Fast LZ compression algorithm

Header File

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You can contact the author at :

- LZ4 source repository : <http://code.google.com/p/lz4/>

- LZ4 public forum : <https://groups.google.com/forum/#!forum/lz4c>

*/

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-hdfs-project/hadoop-hdfs/src/main/webapps/static/bootstrap-3.0.2

hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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LZ4 - Fast LZ compression algorithm

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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- * Tatu Saloranta
 - * Providing benchmark suite
- * Alec Wysoker
 - * Performance and memory usage improvement

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/*

LZ4 - Fast LZ compression algorithm

Header File

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For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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in `src/main/native/src/org/apache/hadoop/util`:

```
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```

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```
/*
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For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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```

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```
/*
LZ4 - Fast LZ compression algorithm
Header File
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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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hadoop-tools/hadoop-sls/src/main/html/js/thirdparty/bootstrap.min.js

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in src/main/native/src/org/apache/hadoop/util:

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Header File
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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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1.270 hadoop-mapreduce-client-common

2.7.3

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in src/main/native/src/org/apache/hadoop/util:

```
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 */
```

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```
/*  
 LZ4 - Fast LZ compression algorithm  
 Header File  
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```

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*/

For `hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h`

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 */
```


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in src/main/native/src/org/apache/hadoop/util:

```
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```

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```
/*
LZ4 - Fast LZ compression algorithm
Header File
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```
*/
```

For hadoop-hdfs-project/hadoop-hdfs-native-client/src/main/native/fuse-dfs/util/tree.h

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SQLLine - Shell for issuing SQL to relational databases via JDBC

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s
by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands
as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition).

Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Janino - An embedded Java[™] compiler

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#####

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<https://github.com/python/cpython/blob/81574b80e92554adf75c13fa42415beb8be383cb/LICENSE>

A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see

<https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition).

Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.280 beam-sdks-java-core 2.15.0

1.280.1 Available under license :

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Found in path(s):

```
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/sdk.properties
```

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grammar FieldSpecifierNotation;

```
@header {
```

```
/*
```

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```
*/
package org.apache.beam.sdk.schemas.parser.generated;
}
```

fieldSpecifier: dotExpression;

dotExpression:
 dotExpressionComponent ('.' dotExpressionComponent)*;

dotExpressionComponent: qualifiedComponent # qualifyComponent
 | IDENTIFIER # simpleIdentifier
 | WILDCARD # wildcard
 ;

qualifiedComponent: IDENTIFIER qualifierList
 ;

qualifierList: arrayQualifier (qualifierList)* # arrayQualifierList
 | mapQualifier (qualifierList)* # mapQualifierList
 ;

arrayQualifier: '['
 | '['*'
 ;

mapQualifier: '{'
 | '{*'
 ;

IDENTIFIER: [a-zA-Z0-9_]+ ;

WILDCARD: '*';

WS: [\t\n\r]+ -> skip ;

Found in path(s):

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/parser/generated/FieldSpecifierNotation.g4

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```
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/Contextful.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/transforms/Cast.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/splittabledofn/OffsetRangeTracker.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/state/ReadableState.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/utils/ReflectUtils.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/UsesKms.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/metrics/package-info.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/common/Reiterator.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/reflect/package-info.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/range/OffsetRange.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/FieldValueTypeInfoFactory.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/transforms/Unnest.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
```

jar/org/apache/beam/sdk/transforms/windowing/PartitioningWindowFn.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/TextRowCountEstimator.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/WindowSupplier.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/WindowFnTestUtils.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/NoSuchSchemaException.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/Filter.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/Utils/ConvertHelpers.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/FieldTypeDescriptors.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/common/ReflectHelpers.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/Latest.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/CombineFnTester.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/AvroUtils.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/state/StateSpecs.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/UsesSetState.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/options/DefaultPipelineOptionsRegistrar.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/KvSwap.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/SerializableMatcher.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/JsonToRowUtils.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/TextIO.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/windowing/package-info.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/UsesBoundedSplittableParDo.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/fs/ResolveOptions.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/MovingFunction.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/Sample.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/windowing/BoundedWindow.java

*

/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/UsesSplittableParDoWithWindowedSideInputs.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/ParDo.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/runners/PipelineRunnerRegistrar.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/coders/StructuralByteArray.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/windowing/WindowFn.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/coders/IterableCoder.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/FieldValueGetterFactory.java

*

/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/windowing/MergeOverlappingIntervalWindows.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/Distinct.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/fs/CreateOptions.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/FieldAccessDescriptor.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/function/CloseableThrowingConsumer.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/JavaBeanSchema.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/StreamingIT.java

*

/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/UsesFailureMessage.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/options/PipelineOptionSpec.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/Mean.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/AvroRecordSchema.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/values/PValue.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/FileIO.java

* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-

jar/org/apache/beam/sdk/transforms/display/DisplayData.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/Flatten.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/parser/generated/FieldSpecifierNotationVisitor.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/SerializableComparator.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/splittabledofn/RestrictionTracker.java
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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/WriteFiles.java
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/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/UsesCounterMetrics.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/package-info.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/coders/TextualIntegerCoder.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/UsesSideInputs.java
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jar/org/apache/beam/sdk/PipelineRunner.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/UsesDistributionMetrics.java
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jar/org/apache/beam/sdk/options/Validation.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/FileSystemRegistrar.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/windowing/TimestampTransform.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/SerializableMatchers.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/ReadAllViaFileBasedSource.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/common/ElementByteSizeObservableIterator.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/values/PCollectionList.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/MatcherSerializer.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/ClassPath.java
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/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/state/ValueState.java
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jar/org/apache/beam/sdk/schemas/parser/generated/FieldSpecifierNotationLexer.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/values/RowWithGetters.java
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jar/org/apache/beam/sdk/util/WeightedValue.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/transforms/Join.java
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jar/org/apache/beam/sdk/io/LocalFileSystemRegistrar.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/ShardNameTemplate.java
*

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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/runners/PTransformOverride.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/options/PipelineOptionsValidator.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/options/ProxyInvocationHandler.java
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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/state/WatermarkHoldState.java
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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/runners/AppliedPTransform.java
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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/Reshuffle.java
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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/join/package-info.java
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jar/org/apache/beam/sdk/metrics/Counter.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/coders/BigEndianShortCoder.java
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jar/org/apache/beam/sdk/metrics/MetricResults.java
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jar/org/apache/beam/sdk/util/BufferedElementCountingOutputStream.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/UsesCustomWindowMerging.java
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*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/coders/DefaultCoder.java
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jar/org/apache/beam/sdk/state/Timer.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/UsesAttemptedMetrics.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/MapElements.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/Requirements.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/harness/JvmInitializer.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/coders/CannotProvideCoderException.java
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/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/windowing/AfterAll.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/UnboundedSource.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/LargeKeys.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/Materialization.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/coders/NullableCoder.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/windowing/PaneInfo.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/values/TypeDescriptors.java
*
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jar/org/apache/beam/sdk/testing/PaneExtractors.java
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jar/org/apache/beam/sdk/schemas/SchemaProvider.java

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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/FromRowUsingCreator.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/ExplicitShardedFile.java
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 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/join/RawUnionValue.java
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jar/org/apache/beam/sdk/transforms/windowing/AfterEach.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/coders/CoderProviderRegistrar.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/state/State.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/windowing/Sessions.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/options/ValueProviders.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/transforms/AddFields.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/SchemaCoder.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/FilePatternMatchingShardedFile.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/metrics/MetricQueryResults.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/PTTransform.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/annotations/Internal.java

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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/AutoValueSchema.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/values/PValueBase.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/metrics/MetricName.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/annotations/SchemaFieldName.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/range/package-info.java
 *
 /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/options/package-info.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/metrics/SourceMetrics.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/UserCodeException.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/windowing/AfterFirst.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/values/Row.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/coders/SetCoder.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/coders/CoderException.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/CrashingRunner.java
 *
 /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/Impulse.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/windowing/Window.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/FlattenWithHeterogeneousCoders.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/metrics/MetricsFilter.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/CombineWithContext.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/SerializableBiFunction.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/EmptyOnDeserializationThreadLocal.java
 *
 /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/UsesUnboundedSplittableParDo.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/transforms/package-info.java
 * /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-

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jar/org/apache/beam/sdk/state/TimerSpec.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/options/Description.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/FileBasedSink.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/OffsetBasedSource.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/ThrowingRunnable.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/AvroIO.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/FluentBackoff.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/values/KV.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/windowing/ReshuffleTrigger.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/TestPipeline.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/expansion/ExternalTransformRegistrar.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/coders/BooleanCoder.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/NameUtils.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/fs/MatchResult.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/util/common/Reiterable.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/coders/BigEndianIntegerCoder.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/BoundedReadFromUnboundedSource.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/DoFnTester.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/schemas/parser/FieldAccessDescriptorParser.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/Min.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/Compression.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/testing/PAssert.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-
jar/org/apache/beam/sdk/transforms/Materializations.java

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* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/state/MapState.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/LogicalTypes.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/LocalResourceId.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/IllegalMutationException.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/function/ThrowingBiConsumer.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/SerializableFunction.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/metrics/Metrics.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/ConstantAvroDestination.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/DoFnOutputReceivers.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/range/ByteKeyRange.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/ShardedFile.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/parser/generated/FieldSpecifierNotationParser.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/parser/generated/FieldSpecifierNotationListener.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/SerializableThrowable.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/reflect/ByteBuddyOnTimerInvokerFactory.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/SerializableFunctions.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/IdentityWindowFn.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/metrics/MetricNameFilter.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/UsesTestStream.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/options/ValueProvider.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/Sleeper.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/reflect/OnTimerInvokers.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-

jar/org/apache/beam/sdk/schemas/transforms/Convert.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/UsesUnboundedPCollections.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/ShardingFunction.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/RowJsonValueExtractors.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/CombineFns.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/coders/DurationCoder.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/reflect/DoFnInvoker.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/testing/SuccessOrFailure.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/fs/ResourceId.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/display/package-info.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/ExposedByteArrayOutputStream.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/reflect/ByteBuddyDoFnInvokerFactory.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/coders/DelegateCoder.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/common/ElementByteSizeObserver.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/schemas/CachingFactory.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/state/ReadableStates.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/io/TextSource.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/reflect/DoFnInvokerFactory.java
*
/opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/ProcessFunction.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/transforms/windowing/AfterSynchronizedProcessingTime.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/values/StampedValue.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/RowJsonValidation.java
* /opt/cola/permits/1139213119_1614464807.56/0/beam-sdks-java-core-2-15-0-sources-1-jar/org/apache/beam/sdk/util/SerializableUtils.java

1.281 beam-sdks-java-fn-execution 2.15.0

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```

Found in path(s):

```
* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/package-info.java
```

```
*
/opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/splittabledofn/RestrictionTrackers.java
```

```
* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/data/InboundDataClient.java
```

```
* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/windowing/package-info.java
```

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* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/channel/package-info.java
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```
* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/data/FnDataReceiver.java
```

```
* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/test/TestStreams.java
```

```
* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/data/package-info.java
```

```
*
/opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/stream/package-info.java
```

```
* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/data/LogicalEndpoint.java
```

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/test/InProcessManagedChannelFactory.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/data/RemoteGrpcPortRead.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/data/BeamFnDataBufferingOutboundObserver.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/data/RemoteGrpcPortWrite.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/stream/AdvancingPhaser.java

*

/opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/IdGenerators.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/data/BeamFnDataGrpcMultiplexer.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/splittabledofn/package-info.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/channel/SocketAddressFactory.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/stream/OutboundObserverFactory.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/test/package-info.java

*

/opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/stream/DataStreams.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/data/CompletableFutureInboundDataClient.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/test/TestExecutors.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/windowing/EncodedBoundedWindow.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/stream/SynchronizedStreamObserver.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/channel/ManagedChannelFactory.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/stream/DirectStreamObserver.java

*

/opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/stream/BufferingStreamObserver.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/data/BeamFnDataInboundObserver.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/stream/ForwardingClientResponseObserver.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/sdk/fn/IdGenerator.java

* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-


```
jar/org/apache/beam/sdk/fn/JvmInitializers.java
* /opt/cola/permits/1139213201_1614464812.18/0/beam-sdks-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/sdk/fn/data/CloseableFnDataReceiver.java
```

1.282 beam-runners-java-fn-execution 2.15.0

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```
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```

Found in path(s):

```
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/control/BundleProgressHandler.java
*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/environment/testing/NeedsDocker.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/artifact/BeamFileSystemArtifactStagingService.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/control/OutputReceiverFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/control/SingleEnvironmentInstanceJobBundleFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/splittabledofn/SDFFeederViaStateAndTimers.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/data/GrpcDataService.java
*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/wire/LengthPrefixUnknownCoders.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
```

jar/org/apache/beam/runners/fnexecution/jobsubmission/JobInvoker.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/control/RemoteOutputReceiver.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/InProcessServerFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/state/StateDelegator.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/logging/GrpcLoggingService.java
*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/environment/EmbeddedEnvironmentFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/wire/WireCoders.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/GrpcFnServer.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/graph/package-info.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/control/package-info.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/control/FnApiClient.java
*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/jobsubmission/JobInvocation.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/jobsubmission/package-info.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/HeaderAccessor.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/environment/StaticRemoteEnvironmentFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/logging/Slf4jLogWriter.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/state/package-info.java
*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/control/TimerReceiverFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/control/StageBundleFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/translation/PipelineTranslatorUtils.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/state/StateRequestHandler.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/environment/ProcessManager.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-
jar/org/apache/beam/runners/fnexecution/environment/ProcessEnvironment.java

*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/ControlClientPool.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/provisioning/package-info.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/logging/LogWriter.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/package-info.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/DefaultJobBundleFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/testing/package-info.java
*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/ExternalEnvironmentFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/artifact/ArtifactRetrievalService.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/StaticRemoteEnvironment.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/EnvironmentFactory.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/DockerCommand.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/splittabledofn/package-info.java
*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/provisioning/StaticGrpcProvisionService.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/data/RemoteInputDestination.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/DockerContainerEnvironment.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/state/StateRequestHandlers.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/ProcessBundleDescriptors.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/FnApiControlClientPoolService.java
*
/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/FnService.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/translation/package-info.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/GrpcContextHeaderAccessorProvider.java
* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/data/FnDataService.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/RemoteBundle.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/provisioning/JobInfo.java

*

/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/package-info.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/wire/package-info.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/ServerFactory.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/logging/package-info.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/MapControlClientPool.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/data/package-info.java

*

/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/jobsubmission/InMemoryJobService.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/jobsubmission/JobServerDriver.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/JobBundleFactory.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/InstructionRequestHandler.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/control/SdkHarnessClient.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/translation/BatchSideInputHandlerFactory.java

*

/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/ProcessEnvironmentFactory.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/state/GrpcStateService.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/state/InMemoryBagUserStateFactory.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/jobsubmission/PortablePipelineRunner.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/RemoteEnvironment.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/environment/DockerEnvironmentFactory.java

*

/opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/jobsubmission/JobPreparation.java

* /opt/cola/permits/1139213132_1614464846.0/0/beam-runners-java-fn-execution-2-15-0-sources-1-jar/org/apache/beam/runners/fnexecution/artifact/package-info.java

1.283 beam-model-pipeline 2.15.0

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janino-compiler:

Janino - An embedded Java[™] compiler

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sqlline:

SQLLine - Shell for issuing SQL to relational databases via JDBC

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s
by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
<https://www.python.org/psf/>) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for
the Open Source Definition).

Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL- compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/construction/TriggerTranslation.java
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/opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/construction/ReplacementOutputs.java
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/construction/ParDoTranslation.java
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/opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/construction/ExecutableStageTranslation.java
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
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*
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-

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jar/org/apache/beam/runners/core/construction/SerializablePipelineOptions.java
* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
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*
/opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
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* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/construction/graph/PipelineNode.java
* /opt/cola/permits/1139213141_1614464816.8/0/beam-runners-core-construction-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/construction/RehydratedComponents.java
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1.288 pyjwt 1.4.0

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* /opt/cola/permits/1146907165_1616837590.69/0/cloud-google-com-go-datastore-2-zip/client.go  
* /opt/cola/permits/1146907165_1616837590.69/0/cloud-google-com-go-datastore-2-zip/save.go  
* /opt/cola/permits/1146907165_1616837590.69/0/cloud-google-com-go-datastore-2-zip/time.go  
* /opt/cola/permits/1146907165_1616837590.69/0/cloud-google-com-go-datastore-2-zip/mutation.go  
* /opt/cola/permits/1146907165_1616837590.69/0/cloud-google-com-go-datastore-2-zip/datastore_test.go
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zip/admin/apiv1/datastore_admin_client.go
* /opt/cola/permits/1146907165_1616837590.69/0/cloud-google-com-go-datastore-2-
zip/admin/apiv1/datastore_admin_client_example_test.go
* /opt/cola/permits/1146907165_1616837590.69/0/cloud-google-com-go-datastore-2-zip/admin/apiv1/doc.go
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1.290 googlecloudgobigquery v1.8.0

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* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/iam.go  
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* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/file_test.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/dataset.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/gcs.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/random.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/model.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/standardsql.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/copy.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/iterator.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/params.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/model_test.go  
*  
/opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/iterator_test.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/insert_test.go  
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/integration_test.go
```

```

* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/params_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/routine.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/external_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/go_mod_tidy_hack.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/inserrer.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/load.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/table.go
*
/opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/error_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/copy_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/value_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/dataset_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/value.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/query_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/nulls_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/read_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/standardsql_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/benchmarks/bench.go
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```

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```

Found in path(s):

```

* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/connection/apiv1/connection_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/datatransfer/apiv1/data_transfer_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/datatransfer/apiv1/path_funcs.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1beta2/big_query_read_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1beta1/mock_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1beta2/big_query_write_client_example_test.go
*
/opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/connection/apiv1beta1/connection_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/reservation/apiv1beta1/reservation_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/storage/apiv1beta2/doc.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/storage/apiv1alpha2/doc.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/reservation/apiv1beta1/reservation_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-

```

```
zip/datatransfer/apiv1/mock_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1/big_query_read_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/connection/apiv1beta1/doc.go
*
/opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1alpha2/big_query_write_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/reservation/apiv1beta1/doc.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1/doc.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/connection/apiv1/connection_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/datatransfer/apiv1/ListDataSources_smoke_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1/big_query_read_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/datatransfer/apiv1/data_transfer_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1beta2/big_query_write_client.go
*
/opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/connection/apiv1/doc.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/reservation/apiv1/reservation_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1beta1/big_query_storage_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/reservation/apiv1/reservation_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1beta2/big_query_read_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1alpha2/big_query_write_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/reservation/apiv1/doc.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/datatransfer/apiv1/doc.go
*
/opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1beta1/big_query_storage_client_example_test.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/connection/apiv1beta1/connection_client.go
* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-
zip/storage/apiv1beta1/doc.go
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Found in path(s):

* /opt/cola/permits/1146907130_1616815817.4/0/cloud-google-com-go-bigquery-2-zip/oc_test.go

1.291 mtl v0.0.0-20190408044501-666a987793e9

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```

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```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/integration_test.go
```

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Found in path(s):

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/apiv1/doc.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/apiv1/schema_client.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/apiv1/subscriber_client.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
```

```
zip/apiv1/subscriber_client_example_test.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/apiv1/path_funcs.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/apiv1/mock_test.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
```

```
zip/apiv1/publisher_client_example_test.go
```

```
*
```

```
/opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/apiv1/publisher_client.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
```

```
zip/apiv1/ListTopics_smoke_test.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
```

```
zip/apiv1/pubsub_pull_example_test.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
```

```
zip/apiv1/schema_client_example_test.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/apiv1/iam.go
```

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```

Found in path(s):

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
```

```
zip/internal/distribution/distribution.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/loadtest/cmd/loadtest.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/pullstream.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/topic.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/pullstream_test.go
```

```
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/timeout_test.go
```

* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/apiv1/info.go
 *
 /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/pstest_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/streaming_pull_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/flow_controller_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/nodebug.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/topic_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/internal/benchwrapper/proto/pubsub.proto
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/subscription_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/example_topic_iterator_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/message.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/snapshot.go
 *
 /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/internal/scheduler/receive_scheduler.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/go_mod_tidy_hack.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/internal/distribution/distribution_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/internal/testutil/verifier.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/pstest/fake_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/internal/benchwrapper/main.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/pstest/examples_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/trace.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/pstest/fake.go
 *
 /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/iterator_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/internal/scheduler/receive_scheduler_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/subscription.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/service.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/internal/longtest/endoend_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/pubsub.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/iterator.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/doc.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/mock_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/example_test.go
 *
 /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/loadtest/loadtest.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/internal/scheduler/publish_scheduler.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2/zip/flow_controller.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-
 zip/internal/testutil/verifier_test.go
 * /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-

zip/internal/scheduler/publish_scheduler_test.go
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/debug.go
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/loadtest/benchmark_test.go
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/internal/scheduler/publish_scheduler_benchmark_test.go
* /opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/example_subscription_iterator_test.go
*
/opt/cola/permits/1146907153_1616837587.68/0/cloud-google-com-go-pubsub-2-zip/internal/scheduler/receive_scheduler_benchmark_test.go

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1.294 xgb v0.0.0-20160522181843-27f122750802

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1.296 speakeasy v0.1.0

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1.298 readline v0.0.0-20180603132655-2972be24d48e

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1.299 opencensus-proto v0.2.1

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1.325 sigs-k8s-io-yaml v1.2.0

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/reporters/RemoteReporter.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/BinaryCodec.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/HttpBaggageRestrictionManagerProxy.java

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/http/BaggageRestrictionResponse.java

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/HexCodec.java

*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/BaggageSetter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/Reference.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/Utils/Java6CompatibleThreadLocalRandom.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/Restriction.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/DefaultBaggageRestrictionManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/BaggageRestrictionManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/BaggageRestrictionManagerException.java
*

/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/baggage/RemoteBaggageRestrictionManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/BaggageRestrictionManagerProxy.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Codec.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/InMemoryMetricsFactory.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/NoopMetricsFactory.java
*

/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/MetricsFactory.java

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/CompositeCodec.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/RateLimitingSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/ConstSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/utils/Http.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/UnsupportedFormatException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/SamplingStatus.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/EmptyIpException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/SamplingStrategyErrorException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Extractor.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/RemoteControlledSampler.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/reporters/NoopReporter.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/LogData.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/metrics/Metric.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/MalformedTracerStateStringException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/samplers/http/SamplingStrategyResponse.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Injector.java
```

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/http/ProbabilisticSamplingStrategy.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Gauge.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Tag.java
 *
 /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/HttpSamplingManager.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/http/PerOperationSamplingParameters.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/reporters/InMemoryReporter.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/PerOperationSampler.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/SamplingManager.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/PrefixedKeys.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/utils/Utils.java
 *
 /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/reporters/CompositeReporter.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Sampler.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/GuaranteedThroughputSampler.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Reporter.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Timer.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Counter.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/http/OperationSamplingParameters.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/reporters/LoggingReporter.java
 *
 /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/Constants.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/http/RateLimitingSamplingStrategy.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/Sender.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/metrics/Metrics.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/SystemClock.java
 * /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/samplers/ProbabilisticSampler.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/clock/Clock.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/EmptyTracerStateStringException.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/SenderException.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/utils/RateLimiter.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-
jar/io/jaegertracing/internal/exceptions/NotFourOctetsException.java
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jar/io/jaegertracing/internal/propagation/B3TextMapCodec.java
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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSenderFactory.java

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/exceptions/TraceIdOutOfBoundException.java

*

/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerObjectFactory.java

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/NoopSender.java

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/spi/SenderFactory.java

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/PropagationRegistry.java

* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/senders/SenderResolver.java

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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerTracer.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/propagation/TextMapCodec.java
*
/opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/Configuration.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/JaegerSpanContext.java
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* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/MDCScopeManager.java
* /opt/cola/permits/1152086972_1618069762.04/0/jaeger-core-1-5-0-sources-jar/io/jaegertracing/internal/clock/MicrosAccurateClock.java

1.332 go-jmespath v0.0.0-20180206201540-c2b33e8439af

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1.336 kafka 1.3.5

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1.339 python-json-logger 0.1.11

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Upstream-Name: python-json-logger

Source: <https://github.com/madzak/python-json-logger>

Files: *

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1.344 zerolog v1.20.0

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1.345 rs-xid v1.2.1

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1.346 botocore 1.19.63

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1.347 pyyaml 5.3.1

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* markupsafe._speedups

* ~~~~~

*

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1.349 go-cleanhttp v0.5.2

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1.350 go-opencensus-io v0.23.0

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1.351 x-time v0.0.0-20191024005414-555d28b269f0

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1.352 githubcomkrfs v0.1.0

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1.353 x-text v0.3.5

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1.354 importlib-metadata 4.5.0

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1.355 gogo-protobuf v1.3.2

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1.356 uvloop 0.14.0

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1.357 responses 0.5.1

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*
/opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/mail/MailMessage.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/mail/javamail/MimeMailMessage.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/scheduling/commonj/ScheduledTimerListener.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/mail/javamail/SmartMimeMessage.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/ehcache/EhCacheManagerFactoryBean.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/mail/MailException.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/scheduling/quartz/SchedulerAccessorBean.java
*
/opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
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* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/interceptor/CacheRemoveEntryInterceptor.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/interceptor/AbstractJCacheOperation.java
*
/opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/scheduling/quartz/SchedulerAccessor.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/scheduling/quartz/ResourceLoaderClassLoadHelper.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/scheduling/quartz/MethodInvokingJobDetailFactoryBean.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/interceptor/AbstractCacheInterceptor.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/interceptor/CacheRemoveOperation.java
*
/opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/interceptor/CacheRemoveAllInterceptor.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/transaction/TransactionAwareCacheDecorator.java
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* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/mail/javamail/MimeMessagePreparator.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/mail/MailPreparationException.java

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#####
```

```
#####  
#  
# Defaults for the Java Activation Framework (revised).  
#  
# Modified extensions registered  
# in this file:  
# text/plain java c c++ cpp pl cc h  
# image/png png  
# image/svg+xml svg  
#  
#####
```

```
text/html html htm HTML HTM  
text/plain txt text TXT TEXT java c c++ cpp pl cc h  
image/gif gif GIF  
image/ief ief  
image/jpeg jpeg jpg jpe JPG  
image/tiff tiff tif  
image/x-xwindowdump xwd  
application/postscript ai eps ps  
application/rtf rtf  
application/x-tex tex  
application/x-texinfo texinfo texi  
application/x-troff t tr roff  
audio/basic au  
audio/midi midi mid  
audio/x-aifc aifc  
audio/x-aiff aif aiff  
audio/x-mpeg mpeg mpg  
audio/x-wav wav
```


video/mpeg mpeg mpg mpe
video/quicktime qt mov
video/x-msvideo avi

#####

#

Additional file types adapted from

<http://sites.utoronto.ca/webdocs/HTMLdocs/Book/Book-3ed/appb/mimetype.html>

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#

#####

TEXT TYPES

text/x-speech talk

text/css css

text/csv csv

IMAGE TYPES

X-Windows bitmap (b/w)

image/x-xbitmap xbm

X-Windows pixmap (8-bit color)

image/x-xpixmap xpm

Portable Network Graphics

image/png png

Scalable Vector Graphics

image/svg+xml svg

Image Exchange Format (RFC 1314)

image/ief ief

RGB

image/rgb rgb

Group III Fax (RFC 1494)

image/g3fax g3f

X Windowdump format

image/x-xwindowdump xwd

Macintosh PICT format

image/x-pict pict

PPM (UNIX PPM package)

image/x-portable-pixmap ppm

PGM (UNIX PPM package)

image/x-portable-graymap pgm

PBM (UNIX PPM package)

image/x-portable-bitmap pbm

PNM (UNIX PPM package)

image/x-portable-anymap pnm

Microsoft Windows bitmap

```

image/x-ms-bmp  bmp
# CMU raster
image/x-cmu-raster  ras
# Kodak Photo-CD
image/x-photo-cd  pcd
# Computer Graphics Metafile
image/cgm  cgm
# CALS Type 1
  or 2
image/x-cals  mil cal
# Fractal Image Format (Iterated Systems)
image/fif  fif
# QuickSilver active image (Micrografx)
image/x-mgx-dsf  dsf
# CMX vector image (Corel)
image/x-cmx  cmx
# Wavelet-compressed (Summus)
image/wavelet  wi
# AutoCad Drawing (SoftSource)
image/vnd.dwg  dwg
# AutoCad DXF file (SoftSource)
image/vnd.dxf  dxf
# Simple Vector Format (SoftSource)
image/vnd.svf  svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic""audio - 8-bit u-law PCM"
audio/basic  au snd
# Macintosh audio format (AIpple)
audio/x-aiff  aif aiff aifc
# Microsoft audio
audio/x-wav  wav
# MPEG audio
audio/x-mpeg  mpa abs mpega
# MPEG-2 audio
audio/x-mpeg-2  mp2a mpa2
# compressed speech (Echo Speech Corp.)
audio/echospeech  es
# Toolvox speech audio (Voxware)
audio/voxware  vox
# RapidTransit compressed audio (Fast Man)
application/fastman  lcc
# Realaudio (Progressive Networks)
application/x-pn-realaudio  ra ram
# MIDI music data
x-music/x-midi  mmid
# Koan music

```

data (SSeyo)
application/vnd.koan skp
Speech synthesis data (MVP Solutions)
text/x-speech talk

VIDEO TYPES

MPEG video
video/mpeg mpeg mpg mpe
MPEG-2 video
video/mpeg-2 mpv2 mp2v
Macintosh Quicktime
video/quicktime qt mov
Microsoft video
video/x-msvideo avi
SGI Movie format
video/x-sgi-movie movie
VDOLive streaming video (VDOnet)
video/vdo vdo
Vivo streaming video (Vivo software)
video/vnd.vivo viv

SPECIAL HTTP/WEB APPLICATION TYPES

Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfig pac
Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalk ice

TEXT-RELATED

PostScript
application/postscript ai eps ps
Microsoft Rich Text Format
application/rtf rtf
Adobe Acrobat PDF
application/pdf pdf
Maker Interchange Format (FrameMaker)
application/vnd.mif mif
Troff document
application/x-troff t tr roff
Troff document with MAN macros
application/x-troff-man man
Troff document with
ME macros
application/x-troff-me me
Troff document with MS macros
application/x-troff-ms ms

```
# LaTeX document
application/x-latex latex
# Tex/LateX document
application/x-tex tex
# GNU TexInfo document
application/x-texinfo texinfo texi
# TeX dvi format
application/x-dvi dvi
# MS word document
application/msword doc DOC
# Office Document Architecture
application/oda oda
# Envoy Document
application/envoy evy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar gtar
# 4.3BSD tar format
application/x-tar tar
# POSIX tar format
application/x-ustar ustar
# Old CPIO format
application/x-bcpio bcpio
# POSIX CPIO format
application/x-cpio cpio
# UNIX sh shell archive
application/x-shar shar
# DOS/PC - Pkzipped archive
application/zip zip
# Macintosh Binhexed archive
application/mac-binhex40 hqx
# Macintosh Stuffit Archive
application/x-stuffit sit sea
# Fractal Image Format
application/fractals fif
# "Binary UUencoded"
application/octet-stream bin
uu
# PC executable
application/octet-stream exe
# "WAIS ""sources"""
application/x-wais-source src wsrc
# NCSA HDF data format
application/hdf hdf

# DOWNLOADABLE PROGRAM/SCRIPTS
```

```
# Javascript program
text/javascript js ls mocha
# UNIX bourne shell program
application/x-sh sh
# UNIX c-shell program
application/x-csh csh
# Perl program
application/x-perl pl
# Tcl (Tool Control Language) program
application/x-tcl tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash spl
# mBED multimedia data (mBED)
application/mbedlet mbd
# PowerMedia multimedia (RadMedia)
application/x-rad-powermedia rad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint ppz
# ASAP WordPower (Software Publishing Corp.)
application/x-asap asp
# Astound Web Player multimedia data (GoldDisk)
application/astound asn

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescript axs
#
# OLE Object (Microsoft/NCompass)
application/x-oleobject ods
# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscape opp
# Visual Basic objects (Amara)
application/x-webbasic wba
# Specialized data entry forms (Alpha Software)
application/x-alpha-form frm
# client-server objects (Wayfarer Communications)
x-script/x-wfxclient wfx

# GENERAL APPLICATIONS
```

Undefined binary data (often executable progs)
application/octet-stream exe com
Pointcast news data (Pointcast)
application/x-pcn pcn
Excel spreadsheet (Microsoft)
application/vnd.ms-excel xls
PowerPoint (Microsoft)
application/vnd.ms-powerpoint ppt
Microsoft Project (Microsoft)
application/vnd.ms-project mpp
SourceView document (Dataware Electronics)
application/vnd.svd svd
Net Install - software install (20/20 Software)
application/x-net-install ins
Carbon Copy - remote control/access (Microcom)
application/ccv ccv
Spreadsheets (Visual Components)
workbook/formulaone vts

2D/3D DATA/VIRTUAL REALITY TYPES

VRML data file
x-world/x-vrml wrl vrml
WIRL - VRML data (VREAM)
x-world/x-vream vrw
Play3D 3d scene data (Play3D)
application/x-p3d p3d
Viscap Interactive 3d world data (Superscape)
x-world/x-svr svr
WebActive 3d data (Plastic Thought)
x-world/x-wvr wvr
QuickDraw3D scene data (Apple)
x-world/x-3dmf 3dmf

SCIENTIFIC/MATH/CAD TYPES

Mathematica notebook
application/mathematica ma
Computational meshes for numerical simulations
x-model/x-mesh msh
Vis5D 5-dimensional data
application/vis5d v5d
IGES models -- CAD/CAM (CGM) data
application/iges igs
Autocad WHIP vector drawings
drawing/x-dwf dwf

Found in path(s):

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/mail/javamail/mime.types

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* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/caffeine/CaffeineCache.java

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/scheduling/quartz/LocalDataSourceJobStore.java

*

/opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/ehcache/EhCacheCacheManager.java

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/ehcache/EhCacheCache.java

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/scheduling/commonj/WorkManagerTaskExecutor.java

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/JCacheCacheManager.java

*

/opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/mail/javamail/MimeMessageHelper.java

* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-jar/org/springframework/cache/jcache/JCacheCache.java

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```
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-
jar/org/springframework/scheduling/quartz/SchedulerContextAware.java
```

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```
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-
jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
```

```
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-
jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
```

```
*
```

```
/opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-
jar/org/springframework/mail/MailAuthenticationException.java
```

```
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-
jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
```

```
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-
```


jar/org/springframework/mail/MailParseException.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-
jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1175494425_1624391368.14/0/spring-context-support-5-2-13-release-sources-
jar/org/springframework/scheduling/commonj/DelegatingWork.java

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1.362 mongo-driver v1.4.1

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/LinkedHashMap.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TypeAdapters.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonTreeReader.java

*

/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/ArrayTypeAdapter.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/ObjectAdapter.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/TypeAdapter.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/JsonReaderInternalAccess.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonTreeWriter.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/TypeAdapterFactory.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java

*
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
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jar/com/google/gson/internal/reflect/PreJava9ReflectionAccessor.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/PreJava9DateFormatProvider.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-


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jar/com/google/gson/internal/reflect/ReflectionAccessor.java
*
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/reflect/UnsafeReflectionAccessor.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
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jar/com/google/gson/JsonParseException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/ExclusionStrategy.java
*
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/$Gson$Preconditions.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/Excluder.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/JsonSerializationContext.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonArray.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/annotations/Since.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/Primitives.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/reflect/TypeToken.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/Gson.java
*
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/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonIOException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonObject.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonSerializer.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/ObjectConstructor.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonNull.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonDeserializationContext.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonElement.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/GsonBuilder.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldNamingPolicy.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldNamingStrategy.java
*
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/DefaultDateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/Until.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/SerializedName.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/Expose.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/InstanceCreator.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

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jar/com/google/gson/internal/LazilyParsedNumber.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/ConstructorConstructor.java
*
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/TimeTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/internal/bind/TreeTypeAdapter.java
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jar/com/google/gson/JsonSyntaxException.java

* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Streams.java

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jar/com/google/gson/stream/JsonToken.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/stream/JsonScope.java
*
```

```
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/stream/JsonReader.java
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jar/com/google/gson/LongSerializationPolicy.java
```

```
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
jar/com/google/gson/JsonStreamParser.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/FieldAttributes.java
```

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```
/opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonParser.java
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1.366 jakarta xml bind api 2.3.3

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1.367 snappy v0.0.3

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1.368 contextlib2 21.6.0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

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2.6	2.5	2008	PSF	yes
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2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
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3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
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* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-jar/com/google/errorprone/annotations/DoNotCall.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
*
/opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-

jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
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 */
```

Found in path(s):

```
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/Immutable.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/ForOverride.java
```

```
*
 /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/Var.java
```

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Found in path(s):

```
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/concurrent/LockMethod.java
*
/opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/NoAllocation.java
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```

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```
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/InlineMe.java
* /opt/cola/permits/1201423115_1631149789.85/0/error-prone-annotations-2-7-1-sources-1-
jar/com/google/errorprone/annotations/InlineMeValidationDisabled.java
```

1.378 go-jose v2.6.0

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1.379 golang-org-x-exp v0.0.0-20200224162631-6cc2880d07d6

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1.380 githubcomgolangprotobuf v1.5.2

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1.382 goldmark v1.3.5

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1.383 github.com/godbus/dbus/v5 v5.0.4

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1.384 [spf13-pflag](https://github.com/ogier/spf13-pflag) 1.0.5

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1.385 rcrowley-go-metrics 0.0.0-20181016184325-3113b8401b8a

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1.386 x-text 0.3.7

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1.387 python-certifi 2021.10.8

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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1.388 errors 0.9.1

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1.389 zerolog 1.20.0

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1.390 jwalterweatherman 1.1.0

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1.391 pyyaml 6.0

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1.392 go-retryablehttp 0.7.0

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```

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1.395 githubcommattngoisatty v0.0.14

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1.396 gorilla 1.4.2

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1.397 py 1.11.0

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1.398 jackson 2.13.2

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1.399 jinja2 3.0.3

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Metadata-Version: 2.1

Name: Jinja2

Version: 3.0.3

Summary: A very fast and expressive template engine.

Home-page: <https://palletsprojects.com/p/jinja/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Donate, <https://palletsprojects.com/donate>
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 Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: i18n
License-File: LICENSE.rst

Jinja

=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
-
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing

Install and update using `pip`:

.. code-block:: text

```
$ pip install -U Jinja2
```

.. _pip: <https://pip.pypa.io/en/stable/getting-started/>

In A Nutshell

.. code-block:: jinja

```
{% extends "base.html" % }
{% block title % }Members{% endblock % }
{% block content % }
<ul>
  {% for user in users % }
    <li><a href="{{ user.url }}">{{ user.username }}</a></li>
  {% endfor % }
</ul>
{% endblock % }
```

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Links

- Documentation: <https://jinja.palletsprojects.com/>
- Changes: <https://jinja.palletsprojects.com/changes/>
- PyPI Releases: <https://pypi.org/project/Jinja2/>
- Source Code: <https://github.com/pallets/jinja/>
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[metadata]

name = Jinja2

version = attr: jinja2.__version__

url = <https://palletsprojects.com/p/jinja/>

project_urls =

Donate = <https://palletsprojects.com/donate>

Documentation = <https://jinja.palletsprojects.com/>

Changes = <https://jinja.palletsprojects.com/changes/>

Source Code = <https://github.com/pallets/jinja/>

Issue Tracker = <https://github.com/pallets/jinja/issues/>

Twitter = <https://twitter.com/PalletsTeam>

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license = BSD-3-Clause

license_files = LICENSE.rst

author = Armin Ronacher

author_email = armin.ronacher@active-4.com

maintainer = Pallets

maintainer_email = contact@palletsprojects.com

description = A very fast and expressive template engine.

long_description = file: README.rst

long_description_content_type = text/x-rst

classifiers =

Development Status :: 5 - Production/Stable

Environment :: Web Environment

Intended Audience :: Developers

License :: OSI Approved ::

BSD License

Operating System :: OS Independent

Programming Language :: Python

Topic :: Internet :: WWW/HTTP :: Dynamic Content

Topic :: Text Processing :: Markup :: HTML

[options]

```
packages = find:
package_dir == src
include_package_data = true
python_requires = >= 3.6
```

```
[options.packages.find]
where = src
```

```
[options.entry_points]
babel.extractors =
jinja2 = jinja2.ext:babel_extract[i18n]
```

```
[tool:pytest]
testpaths = tests
filterwarnings =
error
ignore:The loop argument:DeprecationWarning:asyncio[.]base_events:542
```

```
[coverage:run]
branch = True
source =
jinja2
tests
```

```
[coverage:paths]
source =
src
*/site-packages
```

```
[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/jinja2/__init__.py: F401
```

```
[mypy]
files = src/jinja2
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
```

```
local_partial_types = True
no_implicit_reexport
= True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True
```

```
[mypy-jinja2.defaults]
no_implicit_reexport = False
```

```
[mypy-markupsafe]
no_implicit_reexport = False
```

```
[egg_info]
tag_build =
tag_date = 0
```

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```
* /opt/cola/permits/1226387220_1636997006.25/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/setup.cfg
```

1.400 term v0.0.0-20210927222741-03fcf44c2211

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1.401 jmespath 0.10.0

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1.402 github.com/go-kit/log v0.1.0

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1.403 common v0.26.0

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1.407 golang-mock v1.6.0

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#
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# that the second address should be recognized as the
# same person when interacting with Rietveld.
```

```
# Please keep the list sorted.
```

```
Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
package empty_interface
```

```
//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header
```

```
type Empty interface{ }
```

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// Package empty_interface is a generated GoMock package.
package empty_interface

import (
    gomock "github.com/golang/mock/gomock"
)

// MockEmpty is a mock of Empty interface.
type MockEmpty struct {
    ctrl    *gomock.Controller
    recorder *MockEmptyMockRecorder
}

// MockEmptyMockRecorder is the mock recorder for MockEmpty.
type MockEmptyMockRecorder struct {
    mock *MockEmpty
}

// NewMockEmpty creates a new mock instance.
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
    mock := &MockEmpty{ctrl: ctrl}
    mock.recorder = &MockEmptyMockRecorder{mock}
    return mock
}

// EXPECT returns an object that allows the caller to indicate expected use.
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
{
    return m.recorder
}

```

1.408 json iterator go v1.1.12

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1.410 githubcommatngocolorable v0.1.12

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1.411 go-uber-org-zap v1.17.0

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1.412 google-uuid 1.3.0

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1.413 aiohttp-swagger 1.0.16

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1.414 thrift 0.15.0

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```
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/compat.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/TJSONProtocol.py
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-
```


0.15.0/src/transport/THeaderTransport.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/TSCons.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TTwisted.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/Thrift.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-
 0.15.0/src/server/TProcessPoolServer.py
 *
 /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/__init__.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/TProtocol.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/__init__.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/TSerialization.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/TBinaryProtocol.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TSSLocket.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/server/TServer.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-
 0.15.0/src/server/TNonblockingServer.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/THttpClient.py
 *
 /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/TTornado.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TTransport.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TZlibTransport.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-
 0.15.0/src/protocol/THeaderProtocol.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-
 0.15.0/src/protocol/TMultiplexedProtocol.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/test/test_sslsocket.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/protocol/TBase.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/__init__.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-
 0.15.0/src/protocol/TCompactProtocol.py
 *
 /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-
 0.15.0/src/protocol/TProtocolDecorator.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/server/__init__.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/server/THttpServer.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/TMultiplexedProcessor.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/TSocket.py
 * /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/setup.py
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=====

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Found in path(s):

```
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/README.md
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```
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/TRecursive.py
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Found in path(s):

* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/transport/sslcompat.py

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Metadata-Version: 2.1

Name: thrift

Version: 0.15.0

Summary: Python bindings for the Apache Thrift RPC system

Home-page: <http://thrift.apache.org>

Author: Apache Thrift Developers

Author-email: dev@thrift.apache.org

License: Apache License 2.0

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Environment :: Console

Classifier: Intended Audience :: Developers

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 3

Classifier: Topic :: Software Development :: Libraries

Classifier: Topic :: System :: Networking

Description-Content-Type: text/markdown

Provides-Extra: ssl

Provides-Extra: tornado

Provides-Extra: twisted

Provides-Extra: all

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The Python libraries can be installed manually using the provided setup.py file, or automatically using the install hook provided via autoconf/automake. To use the latter, become superuser and do make install.

Found in path(s):

```
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/thrift.egg-info/PKG-INFO
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/PKG-INFO
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*/
```

Found in path(s):

```
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/compact.cpp
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/compact.h
*
/opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/types.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/types.cpp
```

* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/module.cpp
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/protocol.tcc
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/protocol.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/endian.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/binary.h
* /opt/cola/permits/1247182475_1642534080.54/0/thrift-0-15-0-tar-gz/thrift-0.15.0/src/ext/binary.cpp

1.415 scala 2.11

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1.417 zipp 3.7.0

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1.418 log4j-api 2.17.1

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1.419 apache-log4j 2.17.1

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Any executables

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1.424 xsdlib 2013.6.1

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jar/com/sun/msv/datatype/xsd/IDREFTType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/RangeToken.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/message.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/message_ja.properties
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/message_fr.properties

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/BMPattern.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/RegularExpression.java

*

/opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Op.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/ParseException.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Match.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/REUtil.java

* /opt/cola/permits/1257217844_1642790354.82/0/xsdlb-2013-6-1-sources-
jar/com/sun/msv/datatype/regexp/Token.java

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- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Messages.properties
- * /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Messages_ja.properties

1.425 jctools-core 2.1.1

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- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/BaseLinkedListQueue.java
- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
- *
- /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingHashMap.java
- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/util/UnsafeAccess.java
- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/SpSCUnboundedArrayQueue.java
- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/LinkedListNode.java
- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java
- * /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/SpSCArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpSCUnboundedAtomicArrayQueue.java

*

/opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpSCLinkedAtomicQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/maps/ConcurrentAutoTable.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingSetInt.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/SpSCChunkedArrayQueue.java

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* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/ConcurrentCircularArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/SpmcArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/util/RangeUtil.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/spec/Preference.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/spec/Ordering.java

*

/opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscLinkedQueue7.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingIdentityHashMap.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/QueueFactory.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingHashSet.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscLinkedQueue8.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MessagePassingQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/util/Pow2.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java

*

/opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/BaseSpSCLinkedAtomicArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/SpSCGrowableArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MpmcArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/SpSCLinkedQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/package-info.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/maps/AbstractEntry.java

*

/opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscCompoundQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/BaseSpSCLinkedArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpSCChunkedAtomicArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java

*

/opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscLinkedQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscArrayQueue.java

* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java

```
* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-
jar/org/jctools/queues/atomic/SpSCGrowableAtomicArrayQueue.java
* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-
jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-
jar/org/jctools/queues/MpscUnboundedArrayQueue.java
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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <artifactId>jctools-core</artifactId>
  <groupId>org.jctools</groupId>
  <version>2.1.1</version>
  <name>Java Concurrency Tools Core Library</name>
  <description>Java Concurrency Tools Core Library</description>
  <packaging>bundle</packaging>
```

```
  <dependencies>
    <dependency>
      <groupId>org.hamcrest</groupId>
      <artifactId>hamcrest-all</artifactId>
      <version>${hamcrest.version}</version>
      <scope>test</scope>
    </dependency>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>${junit.version}</version>
      <scope>test</scope>
    </dependency>
```

```
    <dependency>
      <groupId>com.google.guava</groupId>
      <artifactId>guava-testlib</artifactId>
      <version>${guava-testlib.version}</version>
      <scope>test</scope>
    </dependency>
  </dependencies>
```

```
  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>2.19.1</version>
        <configuration>
          <includes>
```



```

    <include>*/</include>
  </includes>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.felix</groupId>
  <artifactId>maven-bundle-plugin</artifactId>
  <version>2.5.4</version>
  <extensions>>true</extensions>
  <configuration>
    <instructions>
      <Import-Package>sun.misc;resolution:=optional</Import-Package>
    </instructions>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-source-plugin</artifactId>
  <version>3.0.1</version>
  <executions>
    <execution>
      <id>attach-sources</id>
      <phase>verify</phase>
      <goals>
        <goal>jar-no-fork</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <version>3.0.0-M1</version>
  <configuration>
    <additionalparam>-Xdoclint:none</additionalparam>
  </configuration>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>

```

```
<distributionManagement>
  <repository>
    <id>bintray-jctools-jctools</id>
    <name>jctools-jctools</name>
    <url>https://api.bintray.com/maven/jctools/jctools/jctools-core/?publish=1</url>
  </repository>
</distributionManagement>
```

```
<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>
```

```
<licenses>
  <license>
    <name>Apache
License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  </license>
</licenses>
```

```
<scm>
  <url>https://github.com/JCTools/JCTools</url>
  <connection>scm:git:https://github.com/JCTools/JCTools</connection>
  <tag>HEAD</tag>
</scm>
```

```
<developers>
  <developer>
    <url>https://github.com/nitsanw</url>
  </developer>
  <developer>
    <url>https://github.com/mjpt777</url>
  </developer>
  <developer>
    <url>https://github.com/RichardWarburton</url>
  </developer>
  <developer>
    <url>https://github.com/Kay</url>
  </developer>
</developers>
```

```
<prerequisites>
  <maven>3.3.9</maven>
</prerequisites>
```

```
<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
```

```
<java.version>1.6</java.version>
<java.test.version>1.8</java.test.version>

<maven.compiler.source>${java.version}</maven.compiler.source>
<maven.compiler.target>${java.version}</maven.compiler.target>
<maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
<maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>

<hamcrest.version>1.3</hamcrest.version>
<junit.version>4.12</junit.version>
<guava-testlib.version>21.0</guava-testlib.version>

</properties>
</project>
```

Found in path(s):

```
* /opt/cola/permits/1257262349_1642793356.2/0/jctools-core-2-1-1-sources-jar/META-
INF/maven/org.jctools/jctools-core/pom.xml
```

1.426 jackson-xc 2.12.2

1.426.1 Available under license :

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1.427 jjwt-api 0.11.2

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Found in path(s):

```
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-
jar/io/jsonwebtoken/io/ExceptionPropagatingDecoder.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/JwtBuilder.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/Arrays.java
*
/opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Decoder.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/security/Keys.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-
jar/io/jsonwebtoken/io/SerializationException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-
jar/io/jsonwebtoken/io/Base64Encoder.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-
jar/io/jsonwebtoken/security/KeyException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-
jar/io/jsonwebtoken/MalformedJwtException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/JwsHeader.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-
jar/io/jsonwebtoken/lang/RuntimeEnvironment.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-
jar/io/jsonwebtoken/io/Base64UrlDecoder.java
*
```

/opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/security/SecurityException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/Claims.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/Assert.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/JwtHandler.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/CompressionCodecs.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/SignatureException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/JwtException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/RequiredTypeException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Base64UrlEncoder.java
*
/opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/JwtParser.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/Header.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/ExpiredJwtException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Decoders.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Encoders.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/Objects.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/Jwts.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/UnsupportedJwtException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Deserializer.java
*
/opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/InstantiationException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Base64Support.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/PrematureJwtException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/ClaimsMutator.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/SignatureAlgorithm.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Base64.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/Collections.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/EncodingException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/JwtHandlerAdapter.java
*
/opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/ExceptionPropagatingEncoder.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/DateFormats.java

* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/DeserializationException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/Jws.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/Classes.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/CodecException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Encoder.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/Jwt.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/DecodingException.java
*
/opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/Strings.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/security/WeakKeyException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Serializer.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/Clock.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/IOException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/security/InvalidKeyException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/SigningKeyResolverAdapter.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/Base64Decoder.java
*
/opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/security/SignatureException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/io/SerialException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/SigningKeyResolver.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/ClaimJwtException.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/UnknownClassException.java
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Found in path(s):

* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/META-INF/maven/io.jsonwebtoken/jjwt-api/pom.xml

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* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/MissingClaimException.java

* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/CompressionException.java

* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/CompressionCodec.java

*

/*
/opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/InvalidClaimException.java

* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/CompressionCodecResolver.java

* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/IncorrectClaimException.java

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Found in path(s):

* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/JwtParserBuilder.java
* /opt/cola/permits/1257863687_1643019601.06/0/jjwt-api-0-11-2-sources-jar/io/jsonwebtoken/lang/Maps.java

1.428 jjwt-impl 0.11.2

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Found in path(s):

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/SignatureValidatorFactory.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/JwtMap.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignatureValidatorFactory.java
*
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/DefaultJwt.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/Base64UrlCodec.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/SignerFactory.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/JwtSignatureValidator.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/DefaultHeader.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/RsaSigner.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/DefaultJwtSigner.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/RsaProvider.java
*
/opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/DefaultClock.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/DefaultJwtBuilder.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/AbstractTextCodec.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/Signer.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/FixedClock.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/DefaultJwtSignatureValidator.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/SignatureProvider.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/DefaultClaims.java
*
/opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/RsaSignatureValidator.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/MacValidator.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/TextCodec.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/DefaultJws.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/DefaultJwtParser.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/SignatureValidator.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/MacSigner.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignerFactory.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/Base64Codec.java
*

```
/opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-
jar/io/jsonwebtoken/impl/DefaultJwsHeader.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-
jar/io/jsonwebtoken/impl/crypto/JwtSigner.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-
jar/io/jsonwebtoken/impl/crypto/MacProvider.java
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Found in path(s):

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* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-
jar/io/jsonwebtoken/impl/DefaultJwtParserBuilder.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-
jar/io/jsonwebtoken/impl/ImmutableJwtParser.java
* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-
jar/io/jsonwebtoken/impl/lang/UnavailableImplementationException.java
*
/opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-
jar/io/jsonwebtoken/impl/lang/Services.java
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Found in path(s):

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSigner.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/compression/AbstractCompressionCodec.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSignatureValidator.java

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/* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/TextCodecFactory.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveProvider.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/compression/DeflateCompressionCodec.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/compression/CompressionCodecs.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/compression/GzipCompressionCodec.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/AndroidBase64Codec.java

* /opt/cola/permits/1257863746_1643019592.94/0/jjwt-impl-0-11-2-sources-jar/io/jsonwebtoken/impl/DefaultTextCodecFactory.java

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1.429 reflections 0.9.10

1.429.1 Available under license :

WTFPL OR BSD-3-Clause

1.430 jtoml 1.0.0

1.430.1 Available under license :

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1.431 byte-buddy 1.9.3

1.431.1 Available under license :

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

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- */

Found in path(s):

- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/field/FieldDescription.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/inline/RebaseDynamicTypeBuilder.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/MethodCall.java
- *
- /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/auxiliary/TypeProxy.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/NamedElement.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/Transformer.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/inline/InliningImplementationMatcher.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveUnboxingDelegate.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/privilege/SetAccessibleAction.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/ByteCodeElement.java
- *
- /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/PrimitiveTypeMatcher.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/package-info.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/package-info.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/TypeResolutionStrategy.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/IsNamedMatcher.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/type/TypeList.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/ArrayTypeMatcher.java
- * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/MethodDelegationBinder.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/RuntimeType.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/MethodParametersMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/collection/ArrayAccess.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/asm/MemberSubstitution.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/StackSize.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/TypeCache.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/visitor/MetadataAwareClassVisitor.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/EqualsMethod.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/Origin.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/member/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/loading/ClassInjector.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/build/Plugin.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/FieldLocator.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/SyntheticState.java
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/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/MethodArguments.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/subclass/SubclassImplementationTarget.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/constant/SerializedConstant.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/SuperCall.java
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/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/method/ParameterDescription.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/DynamicType.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/FieldValue.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/Throw.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/subclass/ConstructorStrategy.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/asm/AsmVisitorWrapper.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/InstrumentedType.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/FixedValue.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/loading/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/ParameterLengthResolver.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/pool/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/loading/ClassReloadingStrategy.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/loading/ClassLoadingStrategy.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/loading/InjectionClassLoader.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/enumeration/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/This.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/annotation/AnnotationValue.java
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/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/DeclaringAnnotationMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/BindingPriority.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/inline/AbstractInliningDynamicTypeBuilder.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/SynchronizationState.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/AnnotationTypeMatcher.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/auxiliary/MethodCallProxy.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/StackManipulation.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/annotation/AnnotationDescription.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/InvocationHandlerAdapter.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/attribute/TypeAttributeAppender.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/privilege/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/MethodOverrideMatcher.java
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/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/TypeCreation.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/Visibility.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/build/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/constant/LongConstant.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/FieldManifestation.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/privilege/GetSystemPropertyAction.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/DefaultCall.java
*

/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/NameMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/subclass/SubclassDynamicTypeBuilder.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/DefaultMethod.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/FieldProxy.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/MethodSortMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/CollectionItemMatcher.java
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/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/Nexus.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/asm/TypeConstantAdjustment.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/type/TypeDefinition.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/build/ToStringPlugin.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/EqualityMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/MethodDelegation.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/build/CachedReturnPlugin.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/IgnoreForBinding.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/ClassLoaderHierarchyMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/MethodManifestation.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/TypeInitializer.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/MethodAccessorFactory.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/enumeration/EnumerationDescription.java
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 jar/net/bytebuddy/dynamic/NexusAccessor.java
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 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
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 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
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 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
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 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/dynamic/loading/ByteArrayClassLoader.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/description/modifier/package-info.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/implementation/FieldAccessor.java
 *
 /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/description/annotation/AnnotationSource.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/description/method/ParameterList.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/implementation/package-info.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/asm/Advice.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/implementation/bytecode/assign/reference/ReferenceTypeAwareAssigner.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/utility/JavaConstant.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
 jar/net/bytebuddy/utility/StreamDrainer.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-

jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveTypeAwareAssigner.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bytecode/constant/NullConstant.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bytecode/member/MethodVariableAccess.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/ElementMatchers.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bind/annotation/Pipe.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/description/modifier/ModifierContributor.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bytecode/constant/JavaConstantValue.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/description/type/package-info.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/ModifierMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/InstanceTypeMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/ClassFileVersion.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/FailSafeMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/asm/TypeReferenceAdjustment.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/utility/JavaModule.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/agent/builder/AgentBuilder.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/CachingMatcher.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/auxiliary/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/dynamic/scaffold/TypeWriter.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/dynamic/ClassFileLocator.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/description/field/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/asm/ModifierAdjustment.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bind/annotation/Morph.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bind/MethodNameEqualityResolver.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/constant/IntegerConstant.java

*

/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/collection/package-info.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/ElementMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/collection/ArrayFactory.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/assign/reference/package-info.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/CollectionElementMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/FieldPersistence.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/DeclaringMethodMatcher.java

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/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/EnumerationState.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/PrimitiveBoxingDelegate.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/ProvisioningState.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/DefinedShapeMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/LatentMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/NullMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/package-info.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/Addition.java

*

/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/HashCodeMethod.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/MethodParameterTypeMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/Duplication.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/member/MethodInvocation.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/Ownership.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/constant/ClassConstant.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-

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jar/net/bytebuddy/matcher/DeclaringTypeMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/dynamic/scaffold/MethodRegistry.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/attribute/AnnotationValueFilter.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bytecode/constant/DefaultValue.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/build/BuildLogger.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bytecode/collection/CollectionFactory.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bytecode/constant/TextConstant.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/bind/annotation/Super.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/InheritedAnnotationMatcher.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/ToStringMethod.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/auxiliary/AuxiliaryType.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/CollectionErasureMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/description/TypeVariableSource.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/SuperMethodCall.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/description/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/dynamic/scaffold/inline/MethodNameTransformer.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/MethodReturnTypeMatcher.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/description/ModifierReviewable.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/implementation/auxiliary/PrivilegedMemberLookupAction.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/matcher/FieldTypeMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/build/HashCodeAndEqualsPlugin.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
jar/net/bytebuddy/dynamic/loading/NoOpClassFileTransformer.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-

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jar/net/bytebuddy/utility/visitor/ExceptionTableSensitiveMethodVisitor.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/package-info.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/inline/MethodRebaseResolver.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/inline/RedefinitionDynamicTypeBuilder.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/Default.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/annotation/AnnotationList.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/SubTypeMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/SignatureTokenMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/ByteCodeAppender.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/attribute/FieldAttributeAppender.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/build/EntryPoint.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/pool/TypePool.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/FilterableList.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/MethodGraph.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/AccessibilityMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/BooleanMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/assign/Assigner.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/member/HandleInvocation.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/package-info.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/ParameterManifestation.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/ArgumentTypeResolver.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/CollectionSizeMatcher.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/agent/builder/LambdaFactory.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/package-

info.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/MethodExceptionTypeMatcher.java

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/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/ClassLoaderParentMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/visitor/LineNumberPrependingMethodVisitor.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/type/PackageDescription.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/StubValue.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/inline/package-info.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/field/FieldList.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/NamingStrategy.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/Implementation.java

*

/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/attribute/AnnotationAppender.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/assign/primitive/VoidAwareAssigner.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/modifier/TypeManifestation.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/SuperTypeMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/SuperMethod.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/type/TypeDescription.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/method/MethodList.java

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/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/TypeSortMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/member/FieldAccess.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/agent/builder/package-info.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/DeclaringTypeResolver.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/VisibilityMatcher.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/asm/package-info.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/Removal.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/visitor/package-info.java
 *
 /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/asm/MemberRemoval.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/attribute/package-info.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/CollectionOneToOneMatcher.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/method/package-info.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/constant/FieldConstant.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/Argument.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/DeclaredByType.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/RandomString.java
 *
 /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/agent/builder/ResettableClassFileTransformer.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/NegatingMatcher.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/HasSuperTypeMatcher.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/ByteBuddy.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bytecode/member/MethodReturn.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/ErasementMatcher.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/DescriptorMatcher.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/loading/PackageDefinitionStrategy.java
 *
 /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/auxiliary/TrivialType.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/matcher/MethodParameterTypesMatcher.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/inline/DecoratingDynamicTypeBuilder.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/Empty.java
 * /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/bind/annotation/TargetMethodAnnotationDrivenBinder.java

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/utility/OpenedClassReader.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/ExceptionMethod.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/description/method/MethodDescription.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/scaffold/TypeValidation.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/implementation/attribute/MethodAttributeAppender.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/dynamic/TargetType.java
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* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/package.html

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/signature/package.html

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Found in path(s):

```
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/Opcodes.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/CurrentFrame.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/Attribute.java  
*  
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/ClassTooLargeException.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/ByteVector.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/Handle.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/SymbolTable.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/Type.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/FieldVisitor.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/signature/SignatureReader.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/AnnotationWriter.java  
*  
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/Context.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/Label.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/signature/SignatureWriter.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/TypePath.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/AnnotationVisitor.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-  
jar/net/bytebuddy/jar/asm/Symbol.java  
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-
```

jar/net/bytebuddy/jar/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/Frame.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/TypeReference.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/ConstantDynamic.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/MethodTooLargeException.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/Edge.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/MethodWriter.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/ModuleVisitor.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/ClassVisitor.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/Handler.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/ClassReader.java
*
/opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/MethodVisitor.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/ModuleWriter.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/Constants.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/ClassWriter.java
* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/net/bytebuddy/jar/asm/FieldWriter.java
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Manifest-Version: 1.0

Bundle-Description: Byte Buddy is a Java library for creating Java classes at run time. This artifact is a build of Byte Buddy with all ASM dependencies repackaged into its own name space.

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

Bundle-SymbolicName: net.bytebuddy.byte-buddy

Built-By: rafael

Bnd-LastModified: 1540749633545

Bundle-ManifestVersion: 2

Tool: Bnd-3.5.0.201709291849

Main-Class: net.bytebuddy.build.Plugin\$Engine\$Default

Export-Package: net.bytebuddy;version="1.9.3",net.bytebuddy.agent.builder;version="1.9.3",net.bytebuddy.asm;version="1.9.3",net.bytebuddy.build;version="1.9.3",net.bytebuddy.description;version="1.9.3",net.bytebuddy.description.annotation;version="1.9.3",net.bytebuddy.descript

ion.enumeration;version="1.9.3",net.bytebuddy.description.field;version="1.9.3",net.bytebuddy.description.method;version="1.9.3",net.bytebuddy.description.modifier;version="1.9.3",net.bytebuddy.description.type;version="1.9.3",net.bytebuddy.dynamic;version="1.9.3",net.bytebuddy.dynamic.loading;version="1.9.3",net.bytebuddy.dynamic.scaffold;version="1.9.3",net.bytebuddy.dynamic.scaffold.inline;version="1.9.3",net.bytebuddy.dynamic.scaffold.subclass;version="1.9.3",net.bytebuddy.implementation;version="1.9.3",net.bytebuddy.implementation.attribute;version="1.9.3",net.bytebuddy.implementation.auxiliary;version="1.9.3",net.bytebuddy.implementation.bind;version="1.9.3",net.bytebuddy.implementation.bind.annotation;version="1.9.3",net.bytebuddy.implementation.bytecode;version="1.9.3",net.bytebuddy.implementation.bytecode.assign;version="1.9.3",net.bytebuddy.implementation.bytecode.assign.primitive;version="1.9.3",net.bytebuddy.implementation.bytecode.assign.reference;version="1.9.3",net.bytebuddy.implementation.bytecode.collection;version="1.9.3",net.bytebuddy.implementation.bytecode.constant;version="1.9.3",net.bytebuddy.implementation.bytecode.member;version="1.9.3",net.bytebuddy.matcher;version="1.9.3",net.bytebuddy.pool;version="1.9.3",net.bytebuddy.utility;version="1.9.3",net.bytebuddy.utility.privilege;version="1.9.3",net.bytebuddy.utility.visitor;version="1.9.3",net.bytebuddy.jar.asm;version="1.9.3",net.bytebuddy.jar.asm.signature;version="1.9.3",net.bytebuddy.jar.asm.commons;version="1.9.3"
Bundle-Name: Byte Buddy (without dependencies)
Bundle-Version: 1.9.3
Multi-Release: true
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_181

Found in path(s):

* /opt/cola/permits/1258286336_1643052509.41/0/byte-buddy-1-9-3-sources-jar/META-INF/MANIFEST.MF

1.432 jetty-util 6.1.26

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Found in path(s):

* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/SingletonList.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ByteArrayOutputStream2.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/URIUtil.java

```

* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/UrlEncoded.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/StringMap.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/MultiMap.java
*
/opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/LazyList.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/DateCache.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/MultiPartWriter.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/log/Log.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/IO.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/StringUtil.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/Loader.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/ByteArrayISO8859Writer.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/TypeUtil.java
*
/opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/component/LifeCycle.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/servlet/UserAgentFilter.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/servlet/WelcomeFilter.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/thread/QueuedThreadPool.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/thread/BoundedThreadPool.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/servlet/MultiPartFilter.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/MultiPartOutputStream.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/QuotedStringTokenizer.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/log/StdErrLog.java
*
/opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/servlet/ProxyServlet.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/MultiException.java

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```

* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/servlet/RestFilter.java

```

```

* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSON.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/AttributesMap.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSONObjectConvertor.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSONDateConvertor.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/servlet/GzipFilter.java
*
/opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSONEnumConvertor.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/IntrospectionUtil.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/ContinuationSupport.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/Continuation.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/thread/Timeout.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/servlet/CGI.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/thread/ThreadPool.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/Utf8StringBuffer.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/log/Slf4jLog.java
*
/opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/Scanner.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/log/Logger.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/AjaxFilter.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/servlet/ConcatServlet.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/JSONPojoConvertor.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/Attributes.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/ajax/WaitingContinuation.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/component/Container.java
*
/opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/util/RolloverFileOutputStream.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/component/AbstractLifeCycle.java
* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-jar/org/mortbay/servlet/NoJspServlet.java

```

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```
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```

```
* $Id$
```

```
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```

```

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*/

```

Found in path(s):

```

* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/servlet/ThrottlingFilter.java

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Found in path(s):

```

* /opt/cola/permits/1258508511_1643078683.77/0/jetty-util-6-1-26-sources-
jar/org/mortbay/util/ajax/JSONPojoConvertorFactory.java

```

1.433 jersey-json 1.9

1.433.1 Available under license :

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1.436 multidict 6.0.2

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1.437 google-auth-library-credentials 0.13.0

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* /opt/cola/permits/1258809740_1643113388.51/0/google-auth-library-credentials-0-13-0-sources-jar/com/google/auth/Credentials.java

1.438 jackson-annotations 2.9.9

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1.439 annotations 4.1.1.4

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* /opt/cola/permits/1258811491_1643111603.33/0/annotations-4-1-1-4-sources-jar/android/annotation/TargetApi.java

1.440 open-csv 5.3

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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/AbstractFieldMapEntry.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/ComplexFieldMapEntry.java
*
/opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/comparator/LiteralComparator.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMapByPosition.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/BeanFieldJoinStringIndex.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/ConverterNumber.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvNumber.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/BeanFieldJoinIntegerIndex.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/PositionToBeanField.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/RegexToBeanField.java
```

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/AbstractFieldMap.java

*

/opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/comparator/package-info.java

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/HeaderIndex.java

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMap.java

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMapByPositionEntry.java

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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvCustomBindByPosition.java

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/opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/AbstractBeanField.java

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/enums/package-info.java

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvRequiredFieldEmptyException.java

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/StatefulBeanToCsvBuilder.java

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/customconverter/ConvertGermanToBoolean.java

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*
/opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvMultilineLimitBrokenException.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvException.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvBadConverterException.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/util/OpencsvUtils.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvBindByPosition.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvRuntimeException.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvDate.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/customconverter/package-info.java
*
/opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/package-info.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvBeanIntrospectionException.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/exceptions/CsvMalformedLineException.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/package-info.java
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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/StatefulBeanToCsv.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvBindByName.java
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/opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/BeanFieldJoin.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/BeanFieldSplit.java
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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMapByNameEntry.java
* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/FieldMapByName.java
*
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* This just implements splitting a single line into fields.</p>

*

* <p>The purpose of the CSVParser is to take a single string and parse it into

* its elements based on the delimiter, quote and escape characters.</p>

*

* <p>The CSVParser has grown organically based on user

requests and does not truly match

* any current requirements (though it can be configured to match or come close). There

* is no plans to change this as it will break existing requirements. Consider using
* the RFC4180Parser for less configurability but closer match to the RFC4180 requirements.</p>
*
* @author Glen Smith
* @author Rainer Pruy
*/

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*/

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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/CSVReader.java
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/**

* A very simple CSV parser for Java released under a commercial-friendly license.

*

* @see opencsv.sourceforge.net

*/

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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/package-info.java
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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/ResultSetColumnNameHelperService.java
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Found in path(s):

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/CsvToBean.java

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/MappingStrategy.java

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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/bean/HeaderColumnNameMappingStrategy.java

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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/CSVParserWriter.java

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/**

* A very simple CSV writer released under a commercial-friendly license.

*

* @author Glen Smith

*/

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* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/CSVWriter.java

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Found in path(s):

* /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/META-INF/maven/com.opencsv/opencsv/pom.xml

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- * /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/CSVParserBuilder.java
- * /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/ResultSetHelperService.java
- * /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/CSVReaderBuilder.java
- * /opt/cola/permits/1258947569_1643118739.88/0/opencsv-5-3-sources-jar/com/opencsv/ResultSetHelper.java

1.441 netty-tcnative-boringssl-static

2.0.22.Final

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- * /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/CertificateVerifier.java

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* /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java

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Manifest-Version: 1.0

BoringSSL-Revision: 0f5ecd3a854546d943104e1f7421e489b7f4d5aa

Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.

Apr-Version: 1.6.5

Automatic-Module-Name: io.netty.tcnative.boringssl

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0>

Bundle-SymbolicName: io.netty.tcnative-boringssl-static

Archiver-Version: Plexus Archiver

Built-By: Norman Maurer

Bnd-LastModified: 1551466213343

Bundle-ManifestVersion: 2

Bundle-DocURL: <http://netty.io/>

Bundle-Vendor: The Netty Project

Import-Package: org.eclipse.jetty.npn;version="[1,2)";resolution:=optional,sun.nio.ch;resolution:=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution:=optional

Tool: Bnd-2.1.0.20130426-122213

Export-Package: io.netty.internal.tcnative;version="2.0.22.Final"

Bundle-Name: Netty/TomcatNative

[BoringSSL - Static]

Bundle-Version: 2.0.22.Final

BoringSSL-Branch: chromium-stable

Bundle-NativeCode: META-INF/native/netty_tcnative.dll;osname=win32;processor=x86_64

Created-By: Apache Maven Bundle Plugin

Build-Jdk: 1.8.0_74

Found in path(s):

* /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/META-INF/MANIFEST.MF

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* /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/SniHostNameMatcher.java

* /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java

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- * /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/Library.java
- * /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/SSLContext.java
- * /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/Buffer.java
- * /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/SSL.java

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- * /opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-jar/io/netty/internal/tcnative/SSLTask.java

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*/opt/cola/permits/1260084502_1643153845.55/0/netty-tcnative-boringssl-static-2-0-22-final-sources-
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```

1.442 netty-transport-native-epoll 4.1.34.Final

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*/opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
```

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/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
*/
```

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```
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
*
/opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/TcpMd5Util.java
```

```
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
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* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
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*
/opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
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jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
*
/opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
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jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
*
/opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-
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/**
* Set the { @code TCP_MD5SIG } option on the socket. See { @code linux/tcp.h } for more details.
* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
* Allowing them being read would mean anyone with access to the channel could get them.
*/
/**
* Set the { @code TCP_QUICKACK } option on the socket. See TCP_QUICKACK
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*/

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* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

* /opt/cola/permits/1260084531_1643157883.85/0/netty-transport-native-epoll-4-1-34-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

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1.443 netty-transport-native-unix-common

4.1.34.Final

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* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/Buffer.java

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* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/DomainSocketAddress.java

*

/opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/NativeInetAddress.java

* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/Socket.java

* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/UnixChannel.java

* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/FileDescriptor.java

* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/DomainSocketReadMode.java

* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/DomainSocketChannel.java

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* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-jar/io/netty/channel/unix/DomainSocketChannelConfig.java

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* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-

```
jar/io/netty/channel/unix/SocketWritableByteChannel.java
*
/opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-
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* /opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-
jar/io/netty/channel/unix/IovArray.java
*
/opt/cola/permits/1260084524_1643153841.92/0/netty-transport-native-unix-common-4-1-34-final-sources-
jar/io/netty/channel/unix/package-info.java
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1.444 jackson-dataformat-yaml 2.10.1

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1.446 metrics 4.1.0

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1.447 metrics-json 4.1.0

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1.448 grpc-1_21_0 0.1

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1.449 protobuf-java-util 3.7.1

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Found in path(s):

```
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/Durations.java
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/FieldMaskUtil.java
*
/opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/TimeUtil.java
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/JsonFormat.java
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/Timestamps.java
* /opt/cola/permits/1261645760_1643309979.54/0/protobuf-java-util-3-7-1-sources-
jar/com/google/protobuf/util/FieldMaskTree.java
```

1.450 java-xmlbuilder 0.4

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*
*
* This code is available from the Google Code repository at:
* http://code.google.com/p/java-xmlbuilder
*/
```

Found in path(s):

```
* /opt/cola/permits/1262203985_1643370465.76/0/jmurty-java-xmlbuilder-v0-4-0-gaf59619-tar-gz/jmurty-java-
xmlbuilder-af59619/src/main/java/com/jamesmurty/utis/XMLBuilder.java
```

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```
/**
* <p>Encodes and decodes to and from Base64 notation.</p>
* <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
```

*
 * <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
 * several pieces of information to the encoder. In the "higher level" methods such as
 * encodeBytes(bytes, options) the options parameter can be used to indicate such
 * things as first gzipping the bytes before encoding them, not inserting linefeeds
 * (though that breaks strict Base64 compatibility), and encoding using the URL-safe
 * and Ordered dialects.</p>
 *
 * <p>The constants defined in Base64 can be OR-ed together to combine options, so you
 * might make a call like this:</p>
 *
 * <code>String encoded = Base64.encodeBytes(mybytes, Base64.GZIP | Base64.DONT_BREAK_LINES
 *);</code>
 *
 * <p>to compress the data before encoding it and then making the output have no newline
 * characters.</p>
 *
 *
 * <p>
 * Change Log:
 * </p>
 *
 * v2.2.2 - Fixed encodeFileToFile and decodeFileToFile to use the
 * Base64.InputStream class to encode and decode on the fly which uses
 * less memory than encoding/decoding an entire file into memory before writing.
 * v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
 * when using very small files (~< 40 bytes).
 * v2.2 - Added some helper methods for encoding/decoding directly from
 * one file to the next. Also added a main() method to support command line
 * encoding/decoding from one file to the next. Also added these Base64 dialects:
 *
 * The default is RFC3548 format.
 * Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
 * URL and file name friendly format as described in Section 4 of RFC3548.
 * http://www.faqs.org/rfcs/rfc3548.html
 * Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT) generates
 * URL and file name friendly format that preserves lexical ordering as described
 * in http://www.faqs.org/qa/rfcc-1940.html
 *
 * Special thanks to Jim Kellerman at http://www.powerset.com/
 * for contributing the new Base64 dialects.
 *
 *
 * v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
 * some convenience methods for reading and writing to and from files.
 * v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
 * with other encodings (like EBCDIC).
 * v2.0.1 - Fixed an error when decoding a single byte, that is, when the

- * encoded data was a single byte.
- * v2.0 - I got rid of methods that used booleans to set options.
- * Now everything is more consolidated and cleaner. The code now detects
- * when data that's being decoded is gzip-compressed and will decompress it
- * automatically. Generally things are cleaner. You'll probably have to
- * change some method calls that you were making to support the new
- * options format (<tt>int</tt>s that you "OR" together).
- * v1.5.1 - Fixed bug when decompressing and decoding to a
- * byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>.
- * Added the ability to "suspend" encoding in the Output Stream so
- * you can turn on and off the encoding if you need to embed base64
- * data in an otherwise "normal" stream (like an XML file).
- * v1.5 - Output stream pases on flush() command but doesn't do anything itself.
- * This helps when using GZIP streams.
- * Added the ability to GZip-compress objects before encoding them.
- * v1.4 - Added helper methods to read/write files.
- * v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
- * v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
- * where last buffer being read, if not completely full, was not returned.
- * v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
- * v1.3.3 - Fixed I/O streams which were totally messed up.
- *
- * <p>
- * I am placing this code in the Public Domain. Do with it as you will.
- * This software comes with no guarantees or warranties but with
- * plenty of well-wishing instead!
- * Please visit http://iharder.net/base64
- * periodically to check for updates or to contribute improvements.
- * </p>
- * <p>
- * @author Robert Harder
- * @author rob@iharder.net
- * @version 2.2.2
- * /

Found in path(s):

```
* /opt/cola/permits/1262203985_1643370465.76/0/jmurty-java-xmlbuilder-v0-4-0-gaf59619-tar-gz/jmurty-java-xmlbuilder-af59619/src/main/java/net/iharder/base64/Base64.java
```

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```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
```

```
<modelVersion>4.0.0</modelVersion>
```

```
<groupId>com.jamesmurty.utils</groupId>
```

```
<artifactId>java-xmlbuilder</artifactId>
```

```

<packaging>jar</packaging>
<version>0.4</version>
<name>java-xmlbuilder</name>
<description>XML Builder is a utility that creates simple XML documents using relatively sparse Java
code</description>
<url>http://code.google.com/p/java-xmlbuilder/</url>
<licenses>
  <license>
    <name>Apache License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0</url>
    <distribution>repo</distribution>
  </license>
</licenses>
<scm>
  <connection>scm:svn:http://java-xmlbuilder.googlecode.com/svn/tags/java-xmlbuilder-0.4</connection>
  <developerConnection>scm:svn:https://java-xmlbuilder.googlecode.com/svn/tags/java-xmlbuilder-
0.4</developerConnection>
  <url>http://java-xmlbuilder.googlecode.com/svn/tags/java-xmlbuilder-0.4</url>
</scm>
<developers>
  <developer>
    <id>jmurty</id>
    <name>James Murty</name>
    <url>http://jamesmurty.com</url>
    <roles>
      <role>developer</role>
    </roles>
  </developer>
</developers>

<dependencies>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>3.8.1</version>
    <scope>test</scope>
  </dependency>
</dependencies>

<parent>
  <groupId>org.sonatype.oss</groupId>
  <artifactId>oss-parent</artifactId>
  <version>3</version>
</parent>

<build>
  <plugins>
    <plugin>

```

```
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-source-plugin</artifactId>
<executions>
  <execution>
    <id>attach-sources</id>
    <goals>
      <goal>jar</goal>
    </goals>
  </execution>
</executions>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-javadoc-plugin</artifactId>
  <executions>
    <execution>
      <id>attach-javadocs</id>
      <goals>
        <goal>jar</goal>
      </goals>
    </execution>
  </executions>
</plugin>
```

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-gpg-plugin</artifactId>
  <executions>
    <execution>
      <id>sign-artifacts</id>
      <phase>verify</phase>
      <goals>
        <goal>sign</goal>
      </goals>
    </execution>
  </executions>
</plugin>
</plugins>
</build>
```

```
<repositories>
  <repository>
    <id>maven2-repository.dev.java.net</id>
    <name>Java.net Repository for Maven</name>
    <url>http://download.java.net/maven/2/</url>
  </repository>
</repositories>
```


</project>

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* /opt/cola/permits/1262203985_1643370465.76/0/jmurty-java-xmlbuilder-v0-4-0-gaf59619-tar-gz/jmurty-java-xmlbuilder-af59619/pom.xml

1.451 swagger-models 2.1.2

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* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/XML.java

* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/FileSchema.java

*

/opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/BinarySchema.java

* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/DateSchema.java

* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/parameters/PathParameter.java

* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/media/PasswordSchema.java

* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-jar/io/swagger/v3/oas/models/examples/Example.java

* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-

jar/io/swagger/v3/oas/models/Paths.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/ExternalDocumentation.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/security/SecurityScheme.java
*
/opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/DateTimeSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/parameters/Parameter.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/UUIDSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/Components.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/info/License.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/PathItem.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/parameters/QueryParameter.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/ArraySchema.java
*
/opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/Encoding.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/security/Scopes.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/links/LinkParameter.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/BooleanSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/security/OAuthFlow.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/ObjectSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/links/Link.java
*
/opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/servers/ServerVariables.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/servers/Server.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/NumberSchema.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/Operation.java
* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
jar/io/swagger/v3/oas/models/media/IntegerSchema.java

* /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/security/SecurityRequirement.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/callbacks/Callback.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/media/EncodingProperty.java
 *
 /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/parameters/CookieParameter.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/media/Content.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/parameters/HeaderParameter.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/security/OAuthFlows.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
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 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/media/MediaType.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/media/ComposedSchema.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/responses/ApiResponses.java
 *
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 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/OpenAPI.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/info/Contact.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/info/Info.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/media/MapSchema.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
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 jar/io/swagger/v3/oas/models/media/ByteArraySchema.java
 *
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 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/servers/ServerVariable.java
 * /opt/cola/permits/1262997930_1643611985.03/0/swagger-models-2-1-2-sources-
 jar/io/swagger/v3/oas/models/media/EmailSchema.java

1.452 swagger-annotations 2.1.2

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```
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 */
```

Found in path(s):

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* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/SecurityRequirement.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/media/Encoding.java
*
/opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/links/Link.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/callbacks/Callbacks.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/Parameter.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/tags/Tags.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/media/DiscriminatorMapping.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/ExternalDocumentation.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/security/OAuthFlows.java
*
/opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/tags/Tag.java
```

* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecuritySchemes.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/License.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/extensions/Extensions.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Operation.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/ServerVariable.java
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* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/Info.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/links/LinkParameter.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/Parameters.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/responses/ApiResponses.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/Schema.java
*
/opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/Content.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/parameters/RequestBody.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecurityRequirements.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/servers/Server.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/security/SecurityScheme.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/info/Contact.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/media/ExampleObject.java
*
/opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-jar/io/swagger/v3/oas/annotations/callbacks/Callback.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-

```
jar/io/swagger/v3/oas/annotations/security/OAuthScope.java
* /opt/cola/permits/1262998154_1643612137.07/0/swagger-annotations-2-1-2-sources-
jar/io/swagger/v3/oas/annotations/servers/Servers.java
```

1.453 typing-extensions 4.1.1

1.453.1 Available under license :

A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes

2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.454 future 5.1.0

1.454.1 Available under license :

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Contributor Covenant Code of Conduct

Our Pledge

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender

identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

Our Standards

Examples of behavior that contributes to a positive environment for our community include:

- * Demonstrating empathy and kindness toward other people
- * Being respectful of differing opinions, viewpoints, and experiences
- * Giving and gracefully accepting constructive feedback
- * Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
- * Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

- * The use of sexualized language or imagery, and sexual attention or advances of any kind
- * Trolling, insulting or derogatory comments, and personal or political attacks
- * Public or private harassment
- * Publishing others' private information, such as a physical or email address, without their explicit permission
- * Other conduct which could reasonably be considered inappropriate in a professional setting

Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of acceptable behavior and will take appropriate and fair corrective action in response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

Scope

This Code of Conduct applies within all community spaces, and also applies when

an individual is officially representing the community in public spaces. Examples of representing our community include using an official e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event.

Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported to the project lead.

All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining the consequences for any action they deem in violation of this Code of Conduct:

###

1. Correction

****Community Impact****: Use of inappropriate language or other behavior deemed unprofessional or unwelcome in the community.

****Consequence****: A private, written warning from community leaders, providing clarity around the nature of the violation and an explanation of why the behavior was inappropriate. A public apology may be requested.

2. Warning

****Community Impact****: A violation through a single incident or series of actions.

****Consequence****: A warning with consequences for continued behavior. No interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, for a specified period of time. This includes avoiding interactions in community spaces as well as external channels like social media. Violating these terms may lead to a temporary or permanent ban.

3. Temporary Ban

****Community Impact****: A serious violation of community standards, including sustained inappropriate behavior.

****Consequence****: A temporary

ban from any sort of interaction or public communication with the community for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

4. Permanent Ban

****Community Impact****: Demonstrating a pattern of violation of community standards, including sustained inappropriate behavior, harassment of an individual, or aggression toward or disparagement of classes of individuals.

****Consequence****: A permanent ban from any sort of public interaction within the community.

Attribution

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Found in path(s):

* /opt/cola/permits/1271961303_1645142519.38/0/future-develop-zip/future-develop/CONDUCT.md

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

Package: dummy

Version: 0.1

Title: A Dummy Package

Description: A package placeholder to trick 'usethis' to stop at the folder where this DESCRIPTION file lives rather than traversing higher up in the directory structure. This protects against bugs such as the one described in <https://github.com/r-lib/lifecycle/issues/52>.

Authors@R: person("Dummy", "Dummyson", role="aut", email = "dummy@dummy.org")

License: GPL (>= 3)

Imports:

lifecycle

RdMacros: lifecycle

Found in path(s):

* /opt/cola/permits/1271961303_1645142519.38/0/future-develop-zip/future-develop/revdep/DESCRIPTION

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Package: future

Version: 1.23.0-9006

Title: Unified Parallel and Distributed Processing in R for Everyone

Imports:

digest,
globals (>= 0.14.0),
listenv (>= 0.8.0),
parallel,
parallelly (>= 1.30.0),
tools,
utils

Suggests:

RhpcBLASctl,
R.rsp,
markdown

VignetteBuilder: R.rsp

Authors@R: c(person("Henrik", "Bengtsson", role=c("aut", "cre", "cph"),
email = "henrikb@braju.com"))

Description: The purpose of this package is to provide a lightweight and unified Future API for sequential and parallel processing of R expression via futures. The simplest way to evaluate an expression in parallel is to use ``x %<-% { expression }`` with ``plan(multisession)``. This package implements sequential, multicore, multisession, and cluster futures. With these, R expressions can be evaluated on the local machine, in parallel a set of local machines, or distributed on a mix of local and remote machines.

Extensions to this package implement additional backends for processing futures via compute cluster schedulers, etc.

Because of its unified API, there is no need to modify any code in order switch from sequential on the local machine to, say, distributed processing on a remote compute cluster.

Another strength of this package is that global variables and functions are automatically identified and exported as needed, making it straightforward to tweak existing code to make use of futures.

License: LGPL (>= 2.1)

LazyLoad: TRUE

ByteCompile: TRUE

URL: <https://future.futureverse.org>, <https://github.com/HenrikBengtsson/future>

BugReports: <https://github.com/HenrikBengtsson/future/issues>

RoxygenNote: 7.1.2

Roxygen: list(markdown = TRUE)

Found in path(s):

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1.455 slf4j-log4j 2.17.1

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picocli (<http://picocli.info>)
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1.456 armon-go-metrics v0.3.10

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1.457 googlecloudgo v0.100.2

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```
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```

```
package compute_test
```

```
import (
    "context"
```

```
    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)
```

```
func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
```

```
    // TODO: Use
    client.
    _ = c
}
```

```
func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
```

```
    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
```

```

}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See
        https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    //
    // TODO: Use resp.
    _ = resp
}

```

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import (
"context"

compute "cloud.google.com/go/compute/apiv1"
"google.golang.org/api/iterator"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

```

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer
    c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
    resp, err := c.Get(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy()
{
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_List() {
ctx :=

```

```

context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
}

func
ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()

```

```

c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"

```



```

httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
)

var
newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get          []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
// However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in

```

```

// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

//
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
// fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)

```

```

httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
    return nil, err
}

c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gopic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

```

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())
```

```
    httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
    if err != nil {
        return nil, err
    }
```

```
    httpReq = httpReq.WithContext(ctx)
```

```
    // Set the headers
```

```
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
```

```
    httpReq.Header["Content-Type"] = []string{"application/json"}
```

```
    httpRsp,
```

```
    err := c.httpClient.Do(httpReq)
```

```
    if err != nil {
        return nil, err
    }
```

```
    defer httpRsp.Body.Close()
```

```
    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
```

```
    buf, err := ioutil.ReadAll(httpRsp.Body)
```

```
    if err != nil {
        return nil, err
    }
```

```
    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
    resp := &computepb.LicenseCode{}
```

```
    if err := unmarshalOptions.Unmarshal(buf, resp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
```

```
    return resp, nil
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{ AllowPartial: true }
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if
err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unmarshal := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
    rsp := &computepb.TestPermissionsResponse{}

    if err := unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return

```

```

    rsp, nil
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

```

```
package compute
```

```

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

    gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

```

```
var
```

```
newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
```

```
    Delete []gax.CallOption
```

```

Get          []gax.CallOption
GetIamPolicy []gax.CallOption
Insert       []gax.CallOption
List         []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
    (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
    error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions
    *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

```

```

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party
// partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.

```



```

func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces
any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint
    string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,

```

```

}
c.setGoogleClientInfo()

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{ }

```

```

if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp);
err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

```

```
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
```

```
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
if err != nil {
```

```
    return nil, err
```

```
}
```

```
httpReq = httpReq.WithContext(ctx)
```

```
// Set the headers
```

```
for k, v
```

```
:= range c.xGoogMetadata {
```

```
    httpReq.Header[k] = v
```

```
}
```

```
httpReq.Header["Content-Type"] = []string{"application/json"}
```

```
httpRsp, err := c.httpClient.Do(httpReq)
```

```
if err != nil {
```

```
    return nil, err
```

```
}
```

```
defer httpRsp.Body.Close()
```

```
if err = googleapi.CheckResponse(httpRsp); err != nil {
```

```
    return nil, err
```

```
}
```

```
buf, err := ioutil.ReadAll(httpRsp.Body)
```

```
if err != nil {
```

```
    return nil, err
```

```
}
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
rsp := &computepb.License{}
```

```
if err := unm.Unmarshal(buf, rsp); err != nil {
```

```
    return nil, maybeUnknownEnum(err)
```

```
}
```

```
return rsp, nil
```

```
}
```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
```

```
opts ...gax.CallOption) (*computepb.Policy, error) {
```

```
    baseUrl, _
```

```
    := url.Parse(c.endpoint)
```

```
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
```

```
    req.GetResource())
```

```
    params := url.Values{ }
```

```

if req != nil && req.OptionsRequestedPolicyVersion != nil {
    params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()

```

```

jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{ }
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if
err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}

```

```

op := &Operation{proto: rsp}
return op, err
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available

licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts

```

```

...gax.CallOption) *LicenseIterator {

```

```

it := &LicenseIterator{}

```

```

req = proto.Clone(req).(*computepb.ListLicensesRequest)

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```

```

it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {

```

```

resp := &computepb.LicensesListResponse{}

```

```

if pageToken != "" {

```

```

req.PageToken = proto.String(pageToken)

```

```

}

```

```

if pageSize > math.MaxInt32 {

```

```

req.MaxResults = proto.Uint32(math.MaxInt32)

```

```

} else if pageSize != 0 {

```

```

req.MaxResults = proto.Uint32(uint32(pageSize))

```

```

}

```

```

baseUrl, _ := url.Parse(c.endpoint)

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",

```

```

req.GetProject())

```

```

params := url.Values{}

```

```

if req != nil && req.Filter != nil {

```

```

params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))

```

```

}

```

```

if req != nil && req.MaxResults != nil {

```

```

params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))

```

```

}

```

```

if req != nil && req.OrderBy != nil {

```

```

params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))

```

```

}

```

```

if req != nil && req.PageToken != nil {

```

```

params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))

```

```

}

```

```

if req != nil && req.ReturnPartialSuccess != nil {

```

```

params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))

```

```

}

```

```

baseUrl.RawQuery = params.Encode()

```

```

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)

```

```

if err != nil {
    return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err !=
nil {
    return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This

```


resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c
*licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

    httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if
err != nil {
        return nil, err
    }

    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Policy{}

    if err := unmarshalOptions.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
}
```

```

return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    httpReq,
err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.TestPermissionsResponse{}

```

```

if err := unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is
    // the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
    it.items = it.items[1:]
    return item, nil
}

func (it *LicenseIterator) bufLen() int {
    return len(it.items)
}

```

```
}  
  
func (it *LicenseIterator) takeBuf() interface{} {  
    b := it.items  
    it.items = nil  
    return b  
}
```

1.458 hashicorp-go-immutable-radix v1.3.1

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1.459 properties 1.8.6

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1.460 wrapt 1.14.0

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1.461 jackson-annotations 2.13.2

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1.462 jackson-dataformat-yaml 2.13.2

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1.469 guava 31.0-jre

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```
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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 */
/**
```

```
* Outer class that exists solely to let us write { @code Partially.GwtIncompatible } instead of plain
* { @code GwtIncompatible }. This is more accurate for { @link Futures#catching }, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler
* wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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*/
/**
* Holder for web specializations of methods of { @code Doubles }. Intended to be empty for regular
* version.
*/
```

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```
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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jar/com/google/common/collect/TreeRangeMap.java
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jar/com/google/common/collect/AbstractNavigableMap.java
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jar/com/google/common/collect/ForwardingImmutableList.java
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jar/com/google/common/collect/ImmutableEnumMap.java
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jar/com/google/common/collect/ForwardingImmutableMap.java
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jar/com/google/common/collect/ForwardingNavigableMap.java
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jar/com/google/common/collect/TreeTraverser.java
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jar/com/google/common/collect/UnmodifiableSortedMultiset.java
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jar/com/google/common/collect/TransformedListIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/SortedMultisetBridge.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/AbstractBaseGraph.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/BaseGraph.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/Traverser.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ClosingFuture.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/AbstractHashFunction.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/ImmutableDoubleArray.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/LineProcessor.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/DenseImmutableTable.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractIdleService.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/ByteArrayDataInput.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Platform.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/CacheBuilder.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/RegularImmutableTable.java

```

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/xml/XmlEscapers.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/ByteProcessor.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/primitives/UnsignedBytes.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/Service.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/LocalCache.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingListenableFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/annotations/GwtCompatible.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/net/HostSpecifier.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Splitter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/escape/Escapers.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/annotations/GwtIncompatible.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-

```


jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/MapMakerInternalMap.java
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 */
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 * and released to the public domain, as explained at
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 *
 * As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
 * java.util.HashMap
 * class.
 */
```

Found in path(s):
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/Striped.java
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jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/LongAdder.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-

jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/Striped64.java
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jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Java8Compatibility.java

```
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-  
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java  
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-  
jar/com/google/common/math/ToDoubleRounder.java
```

```
*  
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-  
jar/com/google/common/hash/Java8Compatibility.java  
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-  
jar/com/google/common/math/BigDecimalMath.java  
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-  
jar/com/google/common/io/Java8Compatibility.java
```

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```

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```

```
*/
```

```
/*
```

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

```
/*
```

```
* MurmurHash3 was written by Austin Appleby, and is placed in the public domain. The author  
* hereby disclaims
```

```
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```

```
*/
```

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```
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jar/com/google/common/base/SmallCharMatcher.java
```

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```

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```

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/math/Quantiles.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/NullnessCasts.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/NullnessCasts.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-

jar/com/google/common/base/NullnessCasts.java

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jar/com/google/common/reflect/Reflection.java

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/**

* Not supported. You are attempting to create a map that may contain a non-{@code Comparable}

* key. Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

* version.

*

* @throws UnsupportedOperationException always

* @deprecated Pass a key of type {@code Comparable}

to use {@link

* [ImmutableSortedMap#of\(Comparable, Object\)](#).

*/

Found in path(s):

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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*/

/**

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

*/

Found in path(s):

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/package-info.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/PatternCompiler.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/CommonPattern.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/CommonMatcher.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/JdkPattern.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/FluentFuture.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-

jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/reflect/TypeToken.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/PatternFilenameFilter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/AppendableWriter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/FuturesGetChecked.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/Futures.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/escape/CharEscaperBuilder.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/FakeTimeLimiter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/escape/CharEscaper.java
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jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncCallable.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/MacHashFunction.java

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jar/com/google/common/graph/IncidentEdgeSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/CompactHashing.java

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*/

/**

* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.

*/

Found in path(s):

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/primitives/IntsMethodsForWeb.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/SortedLists.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/annotations/package-info.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/Monitor.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/annotations/Beta.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Strings.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Ascii.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/Atomics.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ContiguousSet.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/package-info.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/net/package-info.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Equivalence.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ListeningExecutorService.java

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*/

/**

* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/primitives/ShortsMethodsForWeb.java

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/**

* Holder for extra methods of { @code Objects } only in web. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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*/

/**

* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned

array.

*

* <p>This method assumes that the collection size doesn't change while the method is running.

*

* <p>TODO(kevinb): support concurrently modified collections?

*

* @param c the collection for which to return an array of elements

*/

Found in path(s):

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ObjectArrays.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/EmptyImmutableListMultimap.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/Table.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/StandardTable.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/Serialization.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableMapEntrySet.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/StandardRowSortedTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableBiMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableMultiset.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableEntry.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableMultimap.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/Tables.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/RegularImmutableBiMap.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/Collections2.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/BaseImmutableMultimap.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/JdkBackedImmutableBiMap.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/IndexedImmutableSet.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/AbstractByteHasher.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableRangeMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/SipHashFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/TypeCapture.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/BaseEncoding.java
*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/ChecksumHashFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/cache/LongAddable.java
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/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/StandardSystemProperty.java
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jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/AbstractTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/CharSequenceReader.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/HashingInputStream.java

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/*
* This following method is a modified version of one found in
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```
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jar/com/google/common/util/concurrent/MoreExecutors.java
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* http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/ElementTypesAreNonnullByDefault.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/xml/ParametricNullness.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/ParametricNullness.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java

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/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ParametricNullness.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/reflect/ParametricNullness.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/eventbus/ParametricNullness.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/ElementTypesAreNonnullByDefault.java
*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/net/ParametricNullness.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/ParametricNullness.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/ParametricNullness.java

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jar/com/google/common/collect/Count.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/GeneralRange.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/SortedIterable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/RangeSet.java
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jar/com/google/common/collect/SortedIterables.java
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jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingSortedMultiset.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/net/InetAddresses.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/Booleans.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/Bytes.java
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/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/CharMatcher.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Stopwatch.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/primitives/Ints.java

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jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/ImmutableNetwork.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/Graph.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/ImmutableGraph.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/PredecessorsFunction.java
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```
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
```

jar/com/google/common/collect/ImmutableMapEntry.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/GraphConnections.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/NetworkBuilder.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/ForwardingValueGraph.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/ValueGraphBuilder.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/UndirectedGraphConnections.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/MapIteratorCache.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/RangeGwtSerializationDependencies.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/ValueGraph.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/ForwardingGraph.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/graph/StandardMutableValueGraph.java

```

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/UndirectedNetworkConnections.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/StandardMutableGraph.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/DirectedNetworkConnections.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/DirectedGraphConnections.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/CollectCollectors.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/ImmutableValueGraph.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/MapRetrievalCache.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/EdgesConnecting.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/NetworkConnections.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/MultiEdgesConnecting.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/GraphBuilder.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-

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jar/com/google/common/graph/ForwardingNetwork.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/MoreCollectors.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/EndpointPair.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/LinkedHashMapMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/Comparators.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/graph/StandardValueGraph.java
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jar/com/google/common/util/concurrent/Internal.java
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jar/com/google/common/collect/ForwardingObject.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/Lists.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/SetMultimap.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/LinkedHashMultimap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/RegularImmutableSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/AbstractBiMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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jar/com/google/common/collect/UsingToStringOrdering.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ByFunctionOrdering.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingMapEntry.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/CompoundOrdering.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ExplicitOrdering.java

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/ArrayListMultimap.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/ReverseNaturalOrdering.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/EnumBiMap.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/ForwardingList.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/Maps.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/Ordering.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/Iterables.java
 *
 /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/ForwardingMultiset.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/NullsLastOrdering.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/NullsFirstOrdering.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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 jar/com/google/common/collect/AbstractMapEntry.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/Synchronized.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
 jar/com/google/common/collect/NaturalOrdering.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/Multimap.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/TreeMultimap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ComparatorOrdering.java
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/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/Multiset.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ForwardingQueue.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-

jar/com/google/common/collect/ForwardingIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/AbstractIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/BiMap.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingCollection.java
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jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingImmutableCollection.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/UnmodifiableListIterator.java
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Found in path(s):

```
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ImmutableSortedAsList.java
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```
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/EmptyImmutableSetMultimap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/RegularImmutableList.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/ComputationException.java
```

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/TableCollectors.java
*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ForwardingTable.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/DiscreteDomain.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/ImmutableTable.java

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jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/math/IntMath.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/RemovalListeners.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/AbstractLoadingCache.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Present.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/Queues.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Absent.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Optional.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/RemovalCause.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/FunctionalEquivalence.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/ForwardingLoadingCache.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/HashingOutputStream.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Ticker.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/Uninterruptibles.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/HashCode.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/net/HostAndPort.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedExecutionException.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-

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jar/com/google/common/primitives/UnsignedInts.java
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jar/com/google/common/util/concurrent/WrappingExecutorService.java
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jar/com/google/common/cache/ForwardingCache.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/FutureCallback.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/reflect/TypeParameter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/Funnels.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java
*
/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/BoundType.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/math/BigIntegerMath.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/Hasher.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/Enums.java
*

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/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/CacheBuilderSpec.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/reflect/Types.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/cache/RemovalNotification.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/AbstractCompositeHashFunction.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/HashFunction.java
*
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/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/math/MathPreconditions.java
```

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jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/io/CharStreams.java
*
```

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/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/base/FinalizableReferenceQueue.java
```

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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/Interners.java
```

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/Files.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/Closeables.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/Flushables.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/LineBuffer.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ListenableFuture.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Predicates.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/FinalizableSoftReference.java
 *
 /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/LineReader.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Function.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/CountingInputStream.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/DirectExecutor.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/package-info.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/MultiInputStream.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Predicate.java
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 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/EnumMultiset.java
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 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/eventbus/AsyncEventBus.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/FinalizableWeakReference.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/package-info.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/eventbus/EventBus.java
 * /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/eventbus/AllowConcurrentEvents.java
 *

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Charsets.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/collect/HashBiMap.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Functions.java
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* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/eventbus/package-info.java
*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/io/CountingOutputStream.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Objects.java
*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-jar/com/google/common/base/Suppliers.java

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Found in path(s):

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableMultiset.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/collect/JdkBackedImmutableSet.java

* /opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/hash/ImmutableSupplier.java

*

/opt/cola/permits/1296026277_1648531094.55/0/guava-31-0-jre-sources-1-
jar/com/google/common/util/concurrent/ExecutionSequencer.java

1.470 jackson-databind 2.13.2.2

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Jackson JSON processor

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1.471 bson4jackson 2.7.0

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mgo - MongoDB driver for Go

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1.477 python-setuptools 8.8.0

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes

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Release from	Derived	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1				
	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
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1.478 persistent 0.18.1

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1.479 markupsafe 2.1.1

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Metadata-Version: 2.1

Name: MarkupSafe

Version: 2.1.1

Summary: Safely add untrusted strings to HTML/XML markup.

Home-page: <https://palletsprojects.com/p/markupsafe/>

Author: Armin Ronacher

Author-email: armin.ronacher@active-4.com

Maintainer: Pallets

Maintainer-email: contact@palletsprojects.com

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Project-URL: Donate, <https://palletsprojects.com/donate>

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Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

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Classifier: Intended Audience :: Developers

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Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Classifier: Topic :: Text Processing :: Markup :: HTML

Requires-Python: >=3.7

Description-Content-Type: text/x-rst

License-File: LICENSE.rst

MarkupSafe

=====

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

Install and update using `pip`_:

.. code-block:: text

```
pip install -U MarkupSafe
```

.. _pip: <https://pip.pypa.io/en/stable/getting-started/>

Examples

.. code-block:: pycon

```
>>> from markupsafe import Markup, escape

>>> # escape replaces special characters and wraps in Markup
>>> escape("<script>alert(document.cookie);</script>")
Markup('&lt;script&gt;alert(document.cookie);&lt;/script&gt;')

>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup("<strong>Hello</strong>")
Markup('<strong>hello</strong>')

>>> escape(Markup("<strong>Hello</strong>"))
Markup('<strong>hello</strong>')

>>> # Markup is a str subclass
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>{ name }</em>")
>>> template.format(name="World")
Markup('Hello <em>&#34;World&#34;</em>')
```

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Links

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- Changes: <https://markupsafe.palletsprojects.com/changes/>
-
- PyPI Releases: <https://pypi.org/project/MarkupSafe/>
- Source Code: <https://github.com/pallets/markupsafe/>
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name = MarkupSafe
version = attr: markupsafe.__version__
url = <https://palletsprojects.com/p/markupsafe/>
project_urls =
Donate = <https://palletsprojects.com/donate>
Documentation = <https://markupsafe.palletsprojects.com/>
Changes = <https://markupsafe.palletsprojects.com/changes/>
Source Code = <https://github.com/pallets/markupsafe/>
Issue Tracker = <https://github.com/pallets/markupsafe/issues/>
Twitter = <https://twitter.com/PalletsTeam>
Chat = <https://discord.gg/pallets>
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Safely add untrusted strings to HTML/XML markup.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/Stable
Environment :: Web Environment
Intended Audience ::
Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content

[options]

packages = find:
package_dir = = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]

where = src

[tool:pytest]

testpaths = tests
filterwarnings =
error

[coverage:run]

branch = True
source =
markupsafe
tests

[coverage:paths]

source =
src
*/site-packages

[flake8]

select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80

[mypy]

files = src/markupsafe
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True

```
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any
= True
warn_unreachable = True
```

```
[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):

```
* /opt/cola/permits/1306998841_1649871237.78/0/markupsafe-2-1-1-tar-gz/MarkupSafe-2.1.1/setup.cfg
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```

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```
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```

1.480 yarl 1.7.2

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1.481 swagger 1.6.6

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1.482 guava 31.0.1-android

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/**

* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular

* version.

*/

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/PredecessorsFunction.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/Graph.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/Network.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ImmutableGraph.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/FilteredMultimapValues.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Verify.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/Runnables.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/CharSequenceReader.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractTable.java
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- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/StandardMutableValueGraph.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/GraphBuilder.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/EndpointPair.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ForwardingNetwork.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/DirectedGraphConnections.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/StandardMutableGraph.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/AbstractGraph.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/NetworkBuilder.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ImmutableValueGraph.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/MapRetrievalCache.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RangeGwtSerializationDependencies.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/AbstractNetwork.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/MultiEdgesConnecting.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/UndirectedGraphConnections.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/DirectedMultiNetworkConnections.java
- *

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ValueGraph.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ForwardingGraph.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ValueGraphBuilder.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/MutableValueGraph.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/UndirectedNetworkConnections.java
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/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Comparators.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/LinkedHashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/AbstractValueGraph.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/AbstractGraphBuilder.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/EdgesConnecting.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/GraphConstants.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/MapIteratorCache.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/StandardNetwork.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ForwardingValueGraph.java

*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/graph/NetworkConnections.java
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*/
/**
* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/primitives/IntsMethodsForWeb.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/util/concurrent/ExecutionSequencer.java
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Found in path(s):

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/PatternCompiler.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/CommonPattern.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/JdkPattern.java
```

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 * the License.
 */
```

```
/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
 * {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
 * under GWT but with a slightly different signature.
 */
```

```
*
* <p>We can't use { @code PartiallyGwtIncompatible } because then the GWT compiler
* wouldn't recognize
* it as a { @code GwtIncompatible } annotation. And for { @code Futures.catching }, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/Partially.java
```

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*/
```

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jar/com/google/common/util/concurrent/ClosingFuture.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/graph/AbstractBaseGraph.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ObjectCountHashMap.java
```

```
*
```

```
/*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/graph/Traverser.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ObjectCountLinkedHashMap.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/graph/BaseGraph.java
```

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- */

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- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/TreeTraverser.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RangeMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/CompactHashMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/FilteredKeyListMultimap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/TransformedListIterator.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/TransformedIterator.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingNavigableSet.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/SortedMultisetBridge.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AllEqualOrdering.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RegularImmutableAsList.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/DescendingMultiset.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingDeque.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/EvictingQueue.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/CompactLinkedHashMap.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractNavigableMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/DescendingImmutableSortedSet.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/CompactHashSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/FilteredSetMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingImmutableList.java
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*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned
array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

```

Found in path(s):

```

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ObjectArrays.java

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```

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jar/com/google/common/reflect/ElementTypesAreNonnullByDefault.java

```

```

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/primitives/ParametricNullness.java

```


* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ParametricNullness.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/xml/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/net/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/eventbus/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/net/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/html/ElementTypesAreNonnullByDefault.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/hash/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/escape/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/xml/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/cache/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/reflect/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/cache/ElementTypesAreNonnullByDefault.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/math/ElementTypesAreNonnullByDefault.java

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/escape/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/graph/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/eventbus/ElementTypesAreNonnullByDefault.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/io/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/collect/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/html/ParametricNullness.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/base/ElementTypesAreNonnullByDefault.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/math/ParametricNullness.java

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jar/com/google/common/graph/package-info.java

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableEnumSet.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/EmptyImmutableSetMultimap.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/SingletonImmutableTable.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableAsList.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ComparisonChain.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RegularImmutableSortedSet.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/DiscreteDomain.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableTable.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ComputationException.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ArrayTable.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingTable.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableClassToInstanceMap.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RegularImmutableList.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableSetMultimap.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractIndexedListIterator.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedMap.java

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* and released to the public domain, as explained at
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*
* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's
* java.util.HashMap
class.
*/
```

Found in path(s):

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/Striped.java
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```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/SortedMultisets.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/SortedMultiset.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/BaseImmutableMultimap.java

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/MinMaxPriorityQueue.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/UnmodifiableListIterator.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ForwardingImmutableCollection.java
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 */
/*
 * This method was rewritten in Java from an intermediate step of the Murmur hash function in
 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
 * following header:
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 */
```

Found in path(s):
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/Hashing.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/hash/AbstractHashFunction.java
*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/primitives/ImmutableIntArray.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/FluentIterable.java
*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/escape/UnicodeEscaper.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/Booleans.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Converter.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ListenableFutureTask.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/CharMatcher.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/eventbus/DeadEvent.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Function.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Defaults.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Supplier.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/Resources.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/DirectExecutor.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/package-info.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/eventbus/AsyncEventBus.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/util/concurrent/ExecutionList.java
 *
 /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/Files.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/collect/HashBiMap.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/Flushables.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/LittleEndianDataInputStream.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/CountingOutputStream.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/base/AbstractIterator.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/base/Suppliers.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/eventbus/Subscribe.java
 *
 /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/base/Objects.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/eventbus/AllowConcurrentEvents.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/LineReader.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/primitives/Primitives.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/base/FinalizableWeakReference.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/LittleEndianDataOutputStream.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/ByteStreams.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/util/concurrent/AbstractFuture.java
 *
 /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/base/Preconditions.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/base/Predicates.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/package-info.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/util/concurrent/package-info.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

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jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/io/Closeables.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/ListenableFuture.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/EnumMultiset.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/io/CharStreams.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/FinalizableSoftReference.java
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jar/com/google/common/util/concurrent/AbstractService.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/cache/ReferenceEntry.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/net/HostSpecifier.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/escape/ArrayBasedCharEscaper.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/Callables.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/SettableFuture.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
```

jar/com/google/common/net/InternetDomainName.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/util/concurrent/Service.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/collect/DenseImmutableTable.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/reflect/TypeResolver.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/collect/MapMakerInternalMap.java
 *
 /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/base/Platform.java
 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/io/LineProcessor.java
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 jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java
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 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
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 * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
 jar/com/google/common/cache/LocalCache.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/SparseImmutableTable.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/html/HtmlEscapers.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/escape/ArrayBasedEscaperMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Cut.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
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/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/JdkFutureAdapters.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/escape/Platform.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java

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jar/com/google/common/reflect/Reflection.java

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/math/DoubleMath.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ImmediateFuture.java

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/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/FuturesGetChecked.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/CaseFormat.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/PatternFilenameFilter.java

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*/

Found in path(s):

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/NullnessCasts.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/NullnessCasts.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/util/concurrent/NullnessCasts.java

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*/

/**

* Holder for web specializations of methods of { @code Doubles}. Intended to be empty for regular

* version.

*/

Found in path(s):

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/primitives/DoublesMethodsForWeb.java

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/*

* This method was rewritten in Java from an intermediate step of the Murmur hash function in

* <http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp>, which contained the

* following header:

*

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*/

Found in path(s):

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/SmallCharMatcher.java

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Found in path(s):

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/Platform.java

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Found in path(s):

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ServiceManagerBridge.java

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```

Found in path(s):

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/Java8Compatibility.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/hash/Java8Compatibility.java
*
```

```
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/io/Java8Compatibility.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/math/BigDecimalMath.java
```

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 * the License.
 */
/**
```

* Holder for web specializations of methods of { @code Shorts }. Intended to be empty for regular
* version.
*/

Found in path(s):

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/primitives/ShortsMethodsForWeb.java

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jar/com/google/common/collect/GwtTransient.java

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/reflect/TypeToInstanceMap.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableRangeMap.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/hash/LongAddable.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/hash/SipHashFunction.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/reflect/ClassPath.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ServiceManager.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/hash/LongAddables.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/html/package-info.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/ByteSink.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/cache/LongAddable.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/RateLimiter.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/reflect/Parameter.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/StandardSystemProperty.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/Closer.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/reflect/TypeCapture.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/math/PairedStatsAccumulator.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/io/ByteSource.java

*

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/math/StatsAccumulator.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/FilteredKeyMultimap.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/hash/ChecksumHashFunction.java

* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/io/FileWriteMode.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/math/Stats.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/ListenableScheduledFuture.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/io/BaseEncoding.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/hash/AbstractByteHasher.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/xml/package-info.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/escape/package-info.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/math/PairedStats.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ComparatorOrdering.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableSet.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ReverseOrdering.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingMapEntry.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/HashMultiset.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingSortedMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractIterator.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/EnumBiMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingList.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Ordering.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingIterator.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingQueue.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/UsingToStringOrdering.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Synchronized.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RegularImmutableSet.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingObject.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/LinkedHashMultimap.java
- *

/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/package-info.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/MapDifference.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Maps.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/BiMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Iterables.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/SingletonImmutableSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractListMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Multisets.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractMapBasedMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/LinkedListMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/HashMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/LinkedHashMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/SortedSetMultimap.java
*
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ExplicitOrdering.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingConcurrentMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingSortedSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/CompoundOrdering.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/SetMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/EnumHashBiMap.java

*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/TreeMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractMapEntry.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingListIterator.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/NullsLastOrdering.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/NullsFirstOrdering.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Sets.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractBiMap.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/MutableClassToInstanceMap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableList.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ForwardingMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ReverseNaturalOrdering.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/NaturalOrdering.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ConcurrentHashMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ClassToInstanceMap.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractMapBasedMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/AbstractSetMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ListMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/LexicographicalOrdering.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ArrayListMultimap.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-

```
jar/com/google/common/collect/Interner.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/Lists.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ForwardingCollection.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/Iterators.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ByFunctionOrdering.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/hash/package-info.java
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- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableEntry.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/UnmodifiableIterator.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/StandardRowSortedTable.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Serialization.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableMapEntrySet.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableBiMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableSortedSet.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/StandardTable.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Range.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RegularImmutableBiMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableMultimap.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableMapKeySet.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableListMultimap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/RegularImmutableMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableMapValues.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Tables.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/Collections2.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/EmptyImmutableListMultimap.java
- *
- /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableMap.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/PeekingIterator.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ImmutableMultiset.java
- * /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/TreeBasedTable.java

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ImmutableCollection.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/Platform.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/CollectPreconditions.java
```

```
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/HashBasedTable.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/Table.java
```

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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/math/Quantiles.java
```

```
*
```

```
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/ListenerCallQueue.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/eventbus/SubscriberRegistry.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ForwardingSortedMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/AbstractRangeSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/SortedIterable.java
*
 /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/GeneralRange.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/RangeSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ImmutableSortedMultiset.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/SortedIterables.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/Count.java
```

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

Found in path(s):

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java
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jar/com/google/common/collect/CompactHashing.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/graph/IncidentEdgeSet.java
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express
* or implied. See the License for the specific language governing permissions and limitations under
* the License.
*/
/**
* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/primitives/FloatsMethodsForWeb.java
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jar/com/google/common/util/concurrent/CombinedFuture.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/hash/FarmHashFingerprint64.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/Platform.java
```

```
/*
```

```
 /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/InterruptibleTask.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/hash/MacHashFunction.java
```

```
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-
jar/com/google/common/util/concurrent/AsyncCallable.java
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*/
/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
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*/
```

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jar/com/google/common/util/concurrent/MoreExecutors.java
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* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/annotations/package-info.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/net/package-info.java
*
/opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1310549963_1650352325.64/0/guava-31-0-1-android-sources-jar/com/google/common/base/Strings.java

1.483 mongodb-driver-sync 4.0.5

1.483.1 Available under license :

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

```
/*
 * Copyright 2008-present MongoDB, Inc.
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

Found in path(s):

```
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/package-info.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/vault/package-info.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ClientEncryptionImpl.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/KeyRetriever.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoClientImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoClient.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/FindIterable.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/SimpleMongoClients.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/ListCollectionsIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java
```

* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/gridfs/GridFSBucket.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/MongoDatabaseImpl.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/MongoDatabase.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java
 *
 /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/MongoCollection.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/KeyManagementService.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/MapReduceIterable.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/MongoCursor.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ClientSessionBinding.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/MongoClientFactory.java
 *
 /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/gridfs/GridFSBuckets.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/MapReduceIterableImpl.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/MappingIterable.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/ListDatabasesIterable.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/Crypts.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java
 *
 /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/package-info.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/AggregateIterableImpl.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-jar/com/mongodb/client/internal/OperationExecutor.java
 * /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-

jar/com/mongodb/client/vault/ClientEncryption.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/Crypt.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/ListIndexesIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/SimpleMongoClient.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/DistinctIterableImpl.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSFindIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/ChangeStreamIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/DistinctIterable.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoClients.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/gridfs/GridFSUploadStream.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/CryptBinding.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ListIndexesIterableImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoMappingCursor.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/CommandMarker.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoClientDelegate.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/FindIterableImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoCollectionImpl.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/AggregateIterable.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/CollectionInfoRetriever.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/MongoChangeStreamCursor.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/MongoIterableImpl.java

```
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/CryptConnection.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/vault/ClientEncryptions.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright 2008-present MongoDB, Inc.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
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* http://www.apache.org/licenses/LICENSE-2.0
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* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

```
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/ClientSession.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/package-info.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ClientSessionClock.java
*
/opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/TransactionBody.java
* /opt/cola/permits/1316593510_1651018598.46/0/mongodb-driver-sync-4-0-5-sources-2-
jar/com/mongodb/client/internal/ClientSessionImpl.java
```

1.484 swagger-jersey2-jaxrs 1.6.6

1.484.1 Available under license :

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

Manifest-Version: 1.0

Bnd-LastModified: 1649085323471

Build-Jdk: 1.8.0_151

Built-By: frantuma

Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>

Bundle-ManifestVersion: 2
Bundle-Name: swagger-jersey2-jaxrs (Jersey 2.x support)
Bundle-SymbolicName: io.swagger.jersey2-jaxrs
Bundle-Version: 1.6.6
Created-By: Apache Maven Bundle Plugin
Export-Package: io.swagger.jersey.listing;version="1.6.6";uses:="io.swagger.jaxrs.listing",io.swagger.jersey.config;version="1.6.6";uses:="io.swagger.jaxrs.config,javax.servlet",io.swagger.jersey;version="1.6.6";uses:="io.swagger.jaxrs.ext,io.swagger.models.parameters" implementation-version: 1.6.6
Import-Package: com.fasterxml.jackson.databind;version="[2.13,3)",io.swagger.converter;version="[1.6,2)",io.swagger.jaxrs.config;version="[1.6,2)",io.swagger.jaxrs.ext;version="[1.6,2)",io.swagger.jaxrs.listing;version="[1.6,2)",io.swagger.models.parameters;version="[1.6,2)",io.swagger.models.properties;version="[1.6,2)",io.swagger.util;version="[1.6,2)",javax.servlet,org.glassfish.jersey.media.multipart;version="[2.25,3)"
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.3.0.201609221906
url: <https://github.com/swagger-api/swagger-core/modules/swagger-jersey2-jaxrs>

Found in path(s):

* /opt/cola/permits/1317016477_1651059591.65/0/swagger-jersey2-jaxrs-1-6-6-1-jar/META-INF/MANIFEST.MF

1.485 swagger-core 1.6.6

1.485.1 Available under license :

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

Manifest-Version: 1.0
Bnd-LastModified: 1649085244161
Build-Jdk: 1.8.0_151
Built-By: frantuma
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: swagger-core
Bundle-SymbolicName: io.swagger.core
Bundle-Version: 1.6.6
Created-By: Apache Maven Bundle Plugin
Export-Package: io.swagger.converter;version="1.6.6";uses:="com.fasterxml.jackson.annotation,io.swagger.models,io.swagger.models.properties",io.swagger.core.filter;version="1.6.6";uses:="io.swagger.model,io.s

```
wagger.models,io.swagger.models.parameters,io.swagger.models.properti
es",io.swagger.config;version="1.6.6";uses:="io.swagger.core.filter,i
o.swagger.models",io.swagger.model;version="1.6.6";uses:="io.swagger.
models",io.swagger.util;version="1.6.6";uses:="com.fasterxml.jackson.
core,com.fasterxml.jackson.databind,com.fasterxml.jackson.databind.mo
dule,io.swagger.annotations,io.swagger.models,io.swagger.models.auth,
io.swagger.models.parameters,io.swagger.models.properties",io.swagger
.core;version="1.6.6",io.swagger.core.util;version="1.6.6",io.swagger
.reader;version="1.6.6"
```

implementation-version: 1.6.6

```
Import-Package: javax.validation.constraints;version="[1.1,3)",com.fas
terxml.jackson.annotation;version="[2.13,3)",com.fasterxml.jackson.co
re;version="[2.13,3)",com.fasterxml.jackson.core.type;version="[2.13,
3)",com.fasterxml.jackson.core.util;version="[2.13,3)",com.fasterxml.
jackson.databind;version="[2.13,3)",com.fasterxml.jackson.databind.an
notation;version="[2.13,3)",com.fasterxml.jackson.databind.introspect
;version="[2.13,3)",com.fasterxml.jackson.databind.jsontype;version="
[2.13,3)",com.fasterxml.jackson.databind.module;version="[2.13,3)",co
m.fasterxml.jackson.databind.node;version="[2.13,3)",com.fasterxml.ja
ckson.databind.type;version="[2.13,3)",com.fasterxml.jackson.databind
.util;version="[2.13,3)",com.fasterxml.jackson.dataformat.yaml;versio
n="[2.13,3)",com.google.common.collect;version="[31.0,32)",io.swagger
.annotations;version="[1.6,2)",io.swagger.core.filter;version="[1.6,2
)",io.swagger.model;version="[1.6,2)",io.swagger.models;version="[1.6
,2)",io.swagger.models.auth;version="[1.6,2)",io.swagger.models.param
eters;version="[1.6,2)",io.swagger.models.properties;version="[1.6,2)
",io.swagger.models.refs;version="[1.6,2)",javax.xml.bind.annotation,
org.apache.commons.lang3;version="[3.2,4)",org.apache.commons.lang3.t
ext;version="[3.2,4)",org.slf4j;version="[1.7,2)"
```

mode: development

package: io.swagger

Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"

Tool: Bnd-3.3.0.201609221906

url: <https://github.com/swagger-api/swagger-core/modules/swagger-core>

Found in path(s):

* /opt/cola/permits/1317016471_1651059595.18/0/swagger-core-1-6-6-jar/META-INF/MANIFEST.MF

1.486 swagger-jaxrs 1.6.6

1.486.1 Available under license :

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

Manifest-Version: 1.0

Bnd-LastModified: 1649085263620

Build-Jdk: 1.8.0_151

Built-By: frantuma

Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: swagger-jaxrs
Bundle-SymbolicName: io.swagger.jaxrs
Bundle-Version: 1.6.6
Created-By: Apache Maven Bundle Plugin
Export-Package: io.swagger.jaxrs;version="1.6.6";uses:="io.swagger.annotations,io.swagger.jaxrs.config,io.swagger.jaxrs.ext,io.swagger.models,io.swagger.models.parameters,javax.ws.rs",io.swagger.jaxrs.config;version="1.6.6";uses:="io.swagger.config,io.swagger.jaxrs,io.swagger.models,javax.servlet,javax.servlet.http,javax.ws.rs.core,org.reflections",io.swagger.jaxrs.ext;version="1.6.6";uses:="com.fasterxml.jackson.databind,io.swagger.annotations,io.swagger.models,io.swagger.models.parameters",io.swagger.jaxrs.listing;version="1.6.6";uses:="io.swagger.annotations,io.swagger.models,javax.servlet,javax.ws.rs,javax.ws.rs.core,javax.ws.rs.ext" implementation-version: 1.6.6
Import-Package: javax.ws.rs;version="[1.1,3)",javax.ws.rs.core;version="[1.1,3)",javax.ws.rs.ext;version="[1.1,3)",com.fasterxml.jackson.annotation;version="[2.13,3)",com.fasterxml.jackson.databind;version="[2.13,3)",com.fasterxml.jackson.databind.introspect;version="[2.13,3)",com.fasterxml.jackson.databind.type;version="[2.13,3)",com.google.common.base;version="[31.0,32)",com.google.common.collect;version="[31.0,32)",com.google.common.reflect;version="[31.0,32)",io.swagger.annotations;version="[1.6,2)",io.swagger.config;version="[1.6,2)",io.swagger.converter;version="[1.6,2)",io.swagger.core.filter;version="[1.6,2)",io.swagger.jaxrs.config;version="[1.6,2)",io.swagger.jaxrs.ext;version="[1.6,2)",io.swagger.models;version="[1.6,2)",io.swagger.models.auth;version="[1.6,2)",io.swagger.models.parameters;version="[1.6,2)",io.swagger.models.properties;version="[1.6,2)",io.swagger.util;version="[1.6,2)",javax.servlet,javax.servlet.http,org.apache.commons.lang3;version="[3.2,4)",org.reflections;version="[0.9,1)",org.reflections.scanners;version="[0.9,1)",org.reflections.util;version="[0.9,1)",org.slf4j;version="[1.7,2)"
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.3.0.201609221906
url: <https://github.com/swagger-api/swagger-core/modules/swagger-jaxrs>

Found in path(s):

* /opt/cola/permits/1317016483_1651059589.76/0/swagger-jaxrs-1-6-6-jar/META-INF/MANIFEST.MF

1.487 swagger-annotations 1.6.6

1.487.1 Available under license :

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

Manifest-Version: 1.0
Bnd-LastModified: 1649085198980
Build-Jdk: 1.8.0_151
Built-By: frantuma
Bundle-Description: Sonatype helps open source projects to set up Maven repositories on <https://oss.sonatype.org/>
Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.html>
Bundle-ManifestVersion: 2
Bundle-Name: swagger-annotations
Bundle-SymbolicName: io.swagger.annotations
Bundle-Version: 1.6.6
Created-By: Apache Maven Bundle Plugin
Export-Package: io.swagger.annotations;version="1.6.6"
implementation-version: 1.6.6
mode: development
package: io.swagger
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.3.0.201609221906
url: <https://github.com/swagger-api/swagger-core/modules/swagger-annotations>

Found in path(s):

* /opt/cola/permits/1317016489_1651059593.22/0/swagger-annotations-1-6-6-1-jar/META-INF/MANIFEST.MF

1.488 githubcommagiconairproperties v1.8.6

1.488.1 Available under license :

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1.489 github.com/googleapis/google-cloud-go-testing v0.0.0-20200911160855-bcd43fbb19e8

1.489.1 Available under license :

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1.490 hashicorp-consul-api v1.12.0

1.490.1 Available under license :

```
<div
...attributes
class="consul-intention-permission-header-form"
>
<FormGroup
```

```

    @name={{ name }}
  as |group|>

  {{ yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)

    isDirty=(and changeset.isValid changeset.isDirty)
    changeset=changeset
  )}}

  <fieldset>
    <div>
      <group.Element
        @name="HeaderType"
        @type="select"
      as |el|>
        <el.Label>Header type</el.Label>
        <PowerSelect
          @options={{ headerTypes }}
          @selected={{ headerType }}
          @onChange={{ action 'change' 'HeaderType' changeset }} as |Type|>
          {{ get headerLabels Type }}
        </PowerSelect>
      </group.Element>

      <group.Element
        @name="Name"
        @error={{ changeset.get changeset 'error.Name' }}
      as |el|>
        <el.Label>Header name</el.Label>
        <el.Text
          @value={{ changeset.get changeset 'Name' }}
          oninput={{ action
'change' 'Name' changeset }}
        />
        <State @state={{ el.state }} @matches="error">
          <el.Error>
            {{ changeset.get changeset 'error.Name.validation' }}
          </el.Error>
        </State>
      </group.Element>

      {{ #if shouldShowValueField }}
      <group.Element
        @name="Value"
        @error={{ changeset.get changeset 'error.Value' }}

```

```

as |el|>
  <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
  <el.Text
    @value={{changeset-get changeset 'Value'}}
    oninput={{action 'change' 'Value' changeset}}
  />
  <State @state={{el.state}} @matches="error">
    <el.Error>
      {{changeset-get changeset 'error.Value.validation'}}
    </el.Error>
  </State>
</group.Element>
{{/if}}

</div>
</fieldset>
</FormGroup>
</div>

```

layout: api

page_title: License - Operator - HTTP API

description: |-

The `/operator/license` endpoint allows for retrieving the Consul Enterprise License.

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
GET	<code>/operator/license</code>	<code>application/json</code>

The table below shows this endpoint's support for [blocking queries](/api-docs/features/blocking), [consistency modes](/api-docs/features/consistency), [agent caching](/api-docs/features/caching), and [required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required

```
|-----|-----|-----|-----|
|
|`NO`      |`all`      |`none`     |`none`     |
```

The corresponding CLI command is [`consul license get`](/commands/license#get).

Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
This will default to the datacenter of the agent serving the HTTP request.
This is specified as a URL query parameter.`

Sample Request

```
```shell-session
$ curl \
 http://127.0.0.1:8500/v1/operator/license
```
```

Sample Response

```
```json
{
 "Valid": true,
 "License": {
 "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
 "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
 "installation_id": "*",
 "issue_time": "2018-05-21T20:03:35.911567355Z",
 "start_time": "2018-05-21T04:00:00Z",
 "expiration_time": "2019-05-22T03:59:59.999Z",
 "product": "consul",
 "flags": {
 "package": "premium"
 },
 "features": [
 "Automated Backups",
 "Automated Upgrades",
 "Enhanced
Read Scalability",
 "Network Segments",
 "Redundancy Zone",
 "Advanced Network Federation"
],
 "temporary": false
 },
 "Warnings": []
}
```

...

## ## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
PUT	/operator/license	application/json

The table below shows this endpoint's support for [blocking queries](/api-docs/features/blocking), [consistency modes](/api-docs/features/consistency), [agent caching](/api-docs/features/caching), and [required ACLs](/api#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
NO	none	none	operator:write

The corresponding CLI command is [consul license put](/commands/license#put).

### ### Parameters

- dc (string: "") - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### ### Sample Payload

The payload is the raw license blob.

### ### Sample Request

```

shell-session
$ curl \
 --request PUT \
 --data @consul.license \
 http://127.0.0.1:8500/v1/operator/license

```

### ### Sample Response

```

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
    ],
    "temporary": false
  },
  "Warnings": []
}
```

```

## ## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

| Method | Path              | Produces         |
|--------|-------------------|------------------|
| DELETE | /operator/license | application/json |

The table below shows this endpoint's support for [blocking queries](/api-docs/features/blocking), [consistency modes](/api-docs/features/consistency), [agent caching](/api-docs/features/caching), and [required ACLs](/api#authentication).

|

Blocking Queries | Consistency Modes | Agent Caching | ACL Required |

```
| ----- | ----- | ----- | ----- |
| `NO` | `none` | `none` | `operator:write` |
```

The corresponding CLI command is [`consul license reset`](/commands/license#reset).

### ### Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.`

This will default to the datacenter of the agent serving the HTTP request.

This is specified as a URL query parameter.

### ### Sample Request

```
```shell-session  
$ curl \  
  --request DELETE \  
  http://127.0.0.1:8500/v1/operator/license  
```
```

### ### Sample Response

```
```json  
{  
  "Valid": true,  
  "License": {  
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",  
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",  
    "installation_id": "*",  
    "issue_time": "2018-05-21T20:03:35.911567355Z",  
    "start_time": "2018-05-21T04:00:00Z",  
    "expiration_time": "2019-05-22T03:59:59.999Z",  
    "product": "consul",  
    "flags": {  
      "package": "premium"  
    },  
    "features": [  
      "Automated Backups",  
      "Automated Upgrades",  
      "Enhanced Read Scalability",  
      "Network Segments",  
      "Redundancy Zone",  
      "Advanced Network Federation"  
    ],  
    "temporary": false  
  },  
  "Warnings": []  
}
```

layout: docs

page_title: Consul Enterprise License

description: Consul Enterprise License Overview.

Consul Enterprise License

Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

-> **Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](<https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise>) for detailed steps on how to install the license key.

Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro`` and `+prem`` in the name, are the binaries that include the license. The package with `+ent`` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts.

For server agents this means that they must either have the `[`license_path`](/docs/agent/options#license_path)` configuration set or have a license configured in the servers environment

with the ``CONSUL_LICENSE`` or

``CONSUL_LICENSE_PATH`` environment variables. Both the configuration item and the

``CONSUL_LICENSE_PATH``

environment variable point to a file containing the license whereas the ``CONSUL_LICENSE`` environment

variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the `[start_join]/(docs/agent/options#start_join)` or `[retry_join]/(docs/agent/options#retry_join)` configurations. If those are both unset or no `[agent_token]/(docs/agent/options#acl_tokens_agent)` is set then the client agent will immediately shut itself down.

If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.

Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

```
<div
...attributes
class="consul-intention-permission-form"
>
<FormGroup
  @name={{ name }}
as |group|>
```

```
{{ yield (hash
  submit=(action 'submit' changeset)
  reset=(action 'reset' changeset)
```

```
  isDirty=(and changeset.isValid)
  changeset=changeset
)}}}
```

```
<fieldset>
  <div data-property="action">
    <span class="label">
      Should this permission allow the source connect to the destination?
    </span>
    <div role="radiogroup" class={{ if changeset.error.Action ' has-error'}}>
      {{#each intents as |intent|}}
        <label>
          <span>{{ capitalize intent }}</span>
          <input
            type="radio"
            name="Action"
            value={{ intent }}
            checked={{ if (eq changeset.Action intent) 'checked'}}
            onchange={{ action (changeset-set changeset 'Action') value="target.value"}}
          />
        </label>
      {{/each}}
    </div>
  </div>
</fieldset>
```

```
<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
    <group.Element
      @name="PathType"
      @type="select"
    as |el|>
      <el.Label>
        Path type
      </el.Label>
      <PowerSelect
        @options={{ pathTypes }}
        @selected={{ pathType }}
        @onChange={{ action 'change' 'HTTP.PathType' changeset }} as |Type|>
        {{ get pathLabels Type }}
```

```

    </PowerSelect>
  </group.Element>

  {{#if shouldShowPathField}}
    <group.Element
      @name="Path"
      @error={{ changeset-get changeset 'error.HTTP.Path' }}
    as |el|>
      <el.Label>
        {{ get pathLabels pathType }}
      </el.Label>
      <el.Text
        @value={{ changeset-get changeset 'HTTP.Path' }}
        oninput={{ action 'change' 'HTTP.Path' changeset }}
      />
      <State @state={{ el.state }} @matches="error">
        <el.Error>
          {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}

            Path Regex should not be blank
          {{else}}
            Path should begin with a '/'
          {{/if}}
        </el.Error>
      </State>
    </group.Element>
  {{/if}}

</div>
</fieldset>

<fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{ if allMethods 'checked' }}
        onchange={{ action 'change' 'allMethods' changeset }}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

```

```

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
  {{#each methods as |method|}}
    <label class="type-checkbox">
      <input
        type="checkbox"
        name="method"
        value={{method}}
        checked={{if (contains method changeset.HTTP.Methods) 'checked'}}

        onchange={{action 'change' 'method' changeset}}
      />
      <span>{{method}}</span>
    </label>
  {{/each}}
</div>
{{/if}}
</fieldset>

<fieldset>
<h2>Headers</h2>

<Consul::Intention::Permission::Header::List
  @items={{changeset-get changeset 'HTTP.Header'}}
  @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

</Consul::Intention::Permission::Header::List>

<Consul::Intention::Permission::Header::Form
  @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
  <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
</Consul::Intention::Permission::Header::Form>

<button
  data-test-add-header
  type="button"
  class="type-submit"
  disabled={{if (not this.headerForm.isDirty) 'disabled'}}
  onclick={{action this.headerForm.submit}}
>
  Add {{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
</button>
<button
  type="button"
  class="type-cancel"
  onclick={{action this.headerForm.reset}}

```

```

>
  Cancel
</button>

</fieldset>
</FormGroup>
</div>
.consul-intention-permission-form {
  h2 {
    padding-top: 1.4em;
    margin-top: 0.2em;
    margin-bottom: 0.6em;
  }
  .consul-intention-permission-header-form {
    margin-top: 10px;
  }
  fieldset:nth-child(2) > div,
  .consul-intention-permission-header-form fieldset > div {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
    grid-gap: 12px;
  }
  fieldset:nth-child(2) > div label:last-child {
    grid-column: span 2;
  }
  .ember-basic-dropdown-trigger {
    padding: 5px;
  }
  .checkbox-group {
    flex-direction: column;
  }
}
.consul-intention-permission-form {
  h2 {
    border-top: 1px solid rgb(var(--tone-blue-500));
    @extend %h200;
  }
  button.type-submit {
    @extend %frame-blue-300;
  }
  button.type-submit:hover:not(:disabled),
  button.type-submit:focus:not(:disabled) {
    @extend %frame-blue-500;
  }
  button.type-submit:disabled {
    @extend %frame-blue-200;
  }
}

```

```
<Notice
  @type="info"
as |notice|>
<notice.Body>
  <p>
    {{t "components.consul.intention.notice.permissions.body"}}
  </p>
</notice.Body>
<notice.Footer>
  <p>
    <a href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions" target="_blank" rel="noopener noreferrer">
      {{t "components.consul.intention.notice.permissions.footer"}}
    </a>
  </p>
</notice.Footer>
</Notice>
The MIT License (MIT)
```

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```
.consul-intention-permission-header-list {
  max-height: 200px;
  overflow: auto;
}
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
  > ul > li {
    @extend %list-row-200;
  }
}
```

layout: docs

page_title: Storing the Enterprise License in Vault

description: >-

Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

Prerequisites

Prior to setting up the data integration between Vault and Consul on Kubernetes, you will need to have:

1. Read and completed the steps in the [\[Systems Integration\]\(/docs/k8s/installation/vault/systems-integration\)](#) section of [\[Vault as a Secrets Backend\]\(/docs/k8s/installation/vault\)](#).
2. Read the [\[Data Integration Overview\]\(/docs/k8s/installation/vault/data-integration\)](#) section of [\[Vault as a Secrets Backend\]\(/docs/k8s/installation/vault\)](#).

Overview

To use an enterprise license stored in Vault, we will follow the steps outlined in the [\[Data Integration\]\(/docs/k8s/installation/vault/data-integration\)](#) section:

One time setup in Vault

1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

###

Setup per Consul datacenter

1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.

1. Configure the Vault Kubernetes auth role in the Consul on Kubernetes helm chart.

One time setup in Vault

Store the Secret in Vault

First, store the enterprise license in Vault:

```
```shell-session
$ vault kv put secret/consul/license key="<enterprise license>"
```
```

Create a Vault policy that authorizes the desired level of access to the secret

-> **Note:** The secret path referenced by the Vault Policy below will be your ``global.enterpriseLicense.secretName`` Helm value.

Next, you will need to create a policy that allows read access to this secret:

<CodeBlockConfig filename="license-policy.hcl">

```
```HCL
path "secret/data/consul/license" {
 capabilities = ["read"]
}
```
```

</CodeBlockConfig>

Apply the Vault policy by issuing the ``vault policy write`` CLI command:

```
```shell-session
$ vault policy write license-policy
license-policy.hcl
```
```

Setup per Consul datacenter

Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access

Next, you will create Kubernetes auth roles for the Consul server and client:

```
```shell-session
$ vault write auth/kubernetes/role/consul-server \
 bound_service_account_names=<Consul server service account> \
 bound_service_account_namespaces=<Consul installation namespace> \
```





``global.enterpriseLicense.secretKey``  
is the key inside the secret data. This should be the same  
as the key you passed when creating the enterprise license secret in Vault.

---

layout: commands

page\_title: 'Commands: License'

description: >

The license command provides a datacenter-level view of the Consul  
Enterprise license.

---

# Consul License

Command: ``consul license``

<EnterpriseAlert />

The ``license`` command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [\[licensing documentation\]\(/docs/enterprise/license/overview\)](#) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [\[ACL Guide\]\(https://learn.hashicorp.com/consul/security-networking/production-acls\)](#) for more information.

```text

Usage: `consul license <subcommand> [options] [args]`

This command has subcommands for managing
the Consul Enterprise license

Here are some simple examples, and more detailed examples are
available in the subcommands or the documentation.

Install a new license from a file:

```
$ consul license put @consul.license
```

Install a new license from stdin:

```
$ consul license put -
```

Install a new license from a string:

```
$ consul license put "<license blob>"
```

Retrieve the current license:

```
$ consul license get
```

Inspect a license:

```
$ consul license inspect "<path to license file>"
```

Reset the current license:

```
$ consul license reset
```

For more examples, ask for subcommand help or view the documentation.

Subcommands:

```
get    Get the active license
inspect Inspect a signed license
put    Puts a new license in the datacenter
reset  Resets the license in the datacenter
```

...

```
## inspect
```

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and CONSUL_LICENSE_PATH` environment variables.`

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

...

```
$ consul license inspect consul.hcl
```

...

Inspect a license loaded from the environment:

...

```
$ consul license inspect
```

...

This will look at the `CONSUL_LICENSE` environment variable first and if not present then we will look for the file specified by the CONSUL_LICENSE_PATH` environment variable.`

The output looks like this:

...

Source: /consul/config/consul.hcl (path from the CONSUL_LICENSE_PATH environment variable)

Product: consul

License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50

Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4

Installation ID: *

Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC

Start Time: 2020-09-14 00:00:00 +0000 UTC

Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC

Termination Time: 2021-09-14 23:59:59.999 +0000 UTC

Modules:

Global Visibility, Routing and Scale

Governance

and Policy

Features:

Automated Backups

Automated Upgrades

Enhanced Read Scalability

Network Segments

Redundancy Zone

Advanced Network Federation

Namespaces

SSO

Audit Logging

Admin Partitions

License is valid

...

put

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [PUT] /v1/operator/license (/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs] (/api#authentication). Configuration of [blocking queries] (/api-docs/features/blocking) and [agent caching] (/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

| ACL Required |
| -----

```
|  
| `operator:write` |
```

Usage: `consul license put [options] LICENSE`

API Options

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

The output looks like this:

```
```text  
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
 Automated Backups
 Automated Upgrades
 Enhanced Read Scalability
 Network Segments
 Redundancy Zone
 Advanced Network Federation
```
```

```
## get
```

Corresponding HTTP API Endpoint: `[[GET]] /v1/operator/license[/api-docs/operator/license#getting-the-consul-license)`

This command gets the Consul Enterprise license.

The table below shows this command's [required ACLs](/api#authentication). Configuration of [blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

```
ACL Required
`none`
```

Usage: `consul license get [options]`

API Options

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
 Automated Backups
 Automated Upgrades
 Enhanced Read Scalability
 Network Segments
 Redundancy Zone
 Advanced Network Federation
```
```

```
## reset
```

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: `[DELETE] /v1/operator/license[/api-docs/operator/license#resetting-the-consul-license]`

Resets

license for the datacenter to the one builtin in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/api#authentication). Configuration of [blocking queries](/api-docs/features/blocking) and [agent caching](/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

```
ACL Required
`operator:write`
```

Usage: ``consul license reset [options]``

```
#### API Options
```

```
@include 'http_api_options_client.mdx'
```

```
@include 'http_api_options_server.mdx'
```

The output looks like this:

```
```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
 Automated Backups
 Automated Upgrades
 Enhanced Read Scalability
 Network Segments
 Redundancy Zone
 Advanced Network Federation
```

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
  @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
  @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
  @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
  @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
  @extend %pill-deny;
}
<div
  class="notice {{or @type 'info'}}"
  ...attributes
>
  {{yield (hash
    Header=(component 'anonymous' tagName="header")
    Body=(component 'anonymous')
    Footer=(component 'anonymous' tagName="footer")
  )}}
</div>
```

```

<Route
  @name={{ routeName }}
as |route|>
<DataLoader
  @src={{
    uri '${partition}/${namespace}/${dc}/license'
    (hash
      partition=route.params.partition
      namespace=route.params.namespace
      dc=route.params.dc
    )
  }}
as |loader|>

{{#let
  loader.data
as |item|}}
  <BlockSlot @name="error">
    <ErrorState
      @error={{ loader.error }}
      @login={{ route.model.app.login.open }}
    />
  </BlockSlot>

  <BlockSlot @name="disconnected" as |after|>
    {{#if (eq loader.error.status "404")}}
      <Notice
        {{ notification
          sticky=true
        }}
        class="notification-update"
        @type="warning"
      as |notice|>
        <notice.Header>
          <strong>Warning!</strong>
        </notice.Header>
        <notice.Body>
          <p>
            This service has been deregistered and no longer exists in the catalog.
          </p>
        </notice.Body>
      </Notice>
    {{else if (eq
loader.error.status "403")}}
      <Notice
        {{ notification
          sticky=true
        }}

```



```

class="notification-update"
  @type="error"
as |notice|>
  <notice.Header>
    <strong>Error!</strong>
  </notice.Header>
  <notice.Body>
    <p>
      You no longer have access to this service
    </p>
  </notice.Body>
</Notice>
{{else}}
<Notice
  {{notification
    sticky=true
  }}
  class="notification-update"
  @type="warning"
as |notice|>
  <notice.Header>
    <strong>Warning!</strong>
  </notice.Header>
  <notice.Body>
    <p>
      An error was returned whilst loading this data, refresh to try again.
    </p>
  </notice.Body>
</Notice>
{{/if}}
</BlockSlot>

<BlockSlot @name="loaded">
  <div class="tab-section">
    <section
      class={{ class-map
        'validity'
        (array 'valid' item.Valid)
      }}
    >
    <header>
      <h2>
        {{ compute (fn route.t 'expiry.header')}}
      </h2>
    </header>

    <p>
      {{ compute (fn route.t 'expiry.${type}.body'

```

```

(hash
  type=(if item.Valid 'valid' 'expired')
  date=(format-time item.License.expiration_time
    year='numeric'
    month='long'
    day='numeric'
  )
  time=(format-time item.License.expiration_time
    hour12=true
    hour='numeric'
    hourCycle='h12'
    minute='numeric'
    second='numeric'
    timeZoneName='short'
  )
  htmlSafe=true
)
)}}
</p>

<dl>
  <dt class={{ class-map
    (array
'valid' item.Valid)
    (array 'expired' (not item.Valid))
    (array 'warning' (temporal-within item.License.expiration_time 2629800000))
  }}
  >
  {{ compute (fn route.t 'expiry.${type}).header'
    (hash
      type=(if item.Valid 'valid' 'expired')
    )
  }}
</dt>
<dd>
  {{ temporal-format item.License.expiration_time }}
</dd>
</dl>

<aside>
  <header>
    <h3>
      {{ compute (fn route.t 'documentation.title')}}
    </h3>
  </header>
  {{ compute (fn route.t 'documentation.body'
    (hash
      htmlSafe=true

```

```

    )
  )}}
</aside>

</section>
</div>
</BlockSlot>
{{/let}}
</DataLoader>
</Route>
.consul-intention-permission-list {
.detail > div {
  display: flex;
  width: 100%;
}
strong {
  margin-right: 8px;
}
}
{
"Valid": true,
"License": {
  "license_id": "${fake.random.uuid()}",
  "customer_id": "${fake.random.uuid()}",
  "installation_id": "*",
  "issue_time": "2021-01-13T15:25:19.052900132Z",
  "start_time": "2021-01-13T00:00:00Z",
  "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
  "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
  "product": "consul",
  "flags": {
    "modules": [
      "global-visibility-routing-scale",
      "governance-policy"
    ]
  },
"modules": [
  "Global Visibility, Routing and Scale",
  "Governance and Policy"
],
"features": [
  "Automated Backups",
  "Automated Upgrades",
  "Enhanced Read Scalability",
  "Network Segments",
  "Redundancy Zone",
  "Advanced Network Federation",
  "Namespaces",

```

```

    "SSO",
    "Audit Logging",
    "Admin Partitions"
  ]
},
"Warnings": [
]
}
---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
  Consul-Terraform-Sync Enterprise License
---

```

```
# Consul-Terraform-Sync Enterprise License
```

```

<EnterpriseAlert>
  Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

```

CTS Enterprise binaries require a [\[Consul Enterprise license\]\(/docs/enterprise/license/overview\)](/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [\[trial license for Consul Enterprise\]\(/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise\)](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Setting the License

Choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

```

```shell-session
export CONSUL_LICENSE=<LICENSE_VALUE>
```

```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```

```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

```

1. Configure the [\[`license_path`\]\(/docs/enterprise/configuration#license_path\)](/docs/enterprise/configuration#license_path) option in the configuration file to point to

the file containing the license.

```
```hcl
license_path = "<PATH>/<TO>/<FILE>"
```
```

~> **Note**: the [options to set the license and the order of precedence](/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

Updating the License

The previous section describes options for [setting the license](#setting-the-license) needed to start running CTS Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:

1. Update the license environment variable or configuration with the new license value or path to the new license file

1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, CTS Enterprise will provide notifications in the system logs:

| Time period | Behavior |
|---|-----------------------------------|
| 30 days before expiration | Warning-level log every 24-hours |
| 7 days before expiration | Warning-level log every 1 hour |
| 1 hour before expiration | Warning-level log every 1 minute |
| 1 day before expiration | Warning-level log every 5 minutes |
| At or after expiration (before termination) | Error-level log every 1 minute |
| At or after termination | Error-level log and exit |

~> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```
.consul-intention-permission-header-list {
dt::before {
```

```
@extend %with-glyph-icon;
content: 'H';
}
}
# Proprietary License
```

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```

```hbs preview-template
<figure>
<figcaption>URI: <code>/:partition/:namespace/:dc/license</code></figcaption>
<DataSource
 @src={{
 uri '/${partition}/${namespace}/${dc}/license'
 (hash
 partition='partition'
 namespace='ns'
 dc='dc-1'
)
 }}
 @onchange={{ action (mut data) value="data" }}
/>
<pre><code>{{ json-stringify data null 4 }}</code></pre>
</figure>
```

```

```

.consul-intention-permission-list {
dt::before {
  @extend %with-glyph-icon;
}
dl.permission-methods dt::before {
  content: 'M';
}
dl.permission-path dt::before {
  content: 'P';
}
dl.permission-header dt::before {
  content: 'H';
}
}
{{#if (gt items.length 0)}}
<ListCollection
class="consul-intention-permission-header-list"
@items={{ items }}
@scroll="native"
@cellHeight={{ 42 }}
as |item|>
<BlockSlot @name="details">
<dl>
<dt>
<Tooltip>
  Header
</Tooltip>
</dt>
<dd>
  {{ item.Name }} {{ route-match item }}
</dd>

```

```

</dl>
</BlockSlot>
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-delete-action @onclick={{ action ondelete item }} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this header?
            </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
</BlockSlot>
</ListCollection>
{{/if}}

```

layout: docs

page_title: Consul Enterprise License FAQ

description: Frequently Asked Questions pertaining to Consul Enterprise Licensing.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.

Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file.

If the license is missing, invalid, or expired, the server will immediately exit.

This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.

This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.

During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.

The upgrade process varies if ACLs are enabled or disabled in the cluster.

Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/docs/enterprise/upgrades)

-

[Consul License Documentation](/docs/enterprise/license/overview)

- [License configuration values documentation](/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.

This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from <https://releases.hashicorp.com>.

The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul

Enterprise to successfully boot-up.

The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.

The license can be provided on disk (auto-loaded) or as an environment variable.

There is no longer a 6-hour trial period in which Consul Enterprise server agents can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation after license *expiration* as defined in

[`expiration_time`](/api-docs/operator/license#getting-the-consul-license).

As license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will

only cease operation after license *termination*, which occurs 10 years

after license expiration and is defined in

[`termination_time`](/api-docs/operator/license#getting-the-consul-license).

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.

Please review the [upgrade requirements](faq#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join`

addresses, the start/retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Visit [\[consul.io/trial\]](https://consul.io/trial)(/trial) for a free 30-day trial license.

~> **Trial install will cease operation 24 hours after 30-day license expiration**:

Trial licenses are not meant to be used in production.

This is unlike non-trial licenses which provide a 10 year grace period as described in

the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's HashiCorp account team or email support-softwaredelivery@hashicorp.com for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's HashiCorp account team or email support-softwaredelivery@hashicorp.com for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this impact HCP Consul?

This will not impact HCP Consul.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.

This valid license must be on-disk (auto-loaded) or as an environment variable.

Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).

Once

you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).

1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

~> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-software@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This

could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-software@hashicorp.com for information on how to get your organization's enterprise license.

1. Set up the necessary configuration

so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A.

This will result in an error due to how Consul routes calls to the server node, Node B in this example.

Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.

This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.

This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.

You will need to add the following configuration.

```

...
server:
  enterpriseLicense:
    enableLicenseAutoload: false
...

package api

import (
  "io/ioutil"
  "strings"
  "time"
)

type License struct {
  // The unique identifier of the license
  LicenseID string `json:"license_id"`

  // The customer ID associated with the license
  CustomerID string `json:"customer_id"`

  // If set, an identifier that should be used to lock the license to a
  // particular site, cluster, etc.
  InstallationID string `json:"installation_id"`

  // The time at which the license was issued
  IssueTime time.Time `json:"issue_time"`

  // The time at which the license starts being valid
  StartTime time.Time `json:"start_time"`

  // The time after which the license expires
  ExpirationTime time.Time `json:"expiration_time"`

  // The time at which the license ceases to function and can
  // no longer be used in any capacity
  TerminationTime time.Time `json:"termination_time"`

  // The product the license is valid for
  Product string `json:"product"`

  // License Specific Flags
  Flags map[string]interface{} `json:"flags"`

  // Modules is a list
  // of the licensed enterprise modules
  Modules []string `json:"modules"`

  // List of features enabled by the license

```

```

Features []string `json:"features"`
}

type LicenseReply struct {
    Valid bool
    License *License
    Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
    r.setQueryOptions(q)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return "", err
    }

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }

    return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If
// the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")

```

```

r.setWriteOptions(opts)
_, resp, err := op.c.doRequest(r)
if err != nil {
    return nil, err
}
defer closeResponseBody(resp)
if err := requireOK(resp); err != nil {
    return nil, err
}
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}
return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r
    := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := op.c.doRequest(r)
    if err != nil {
        return nil, err
    }
    defer closeResponseBody(resp)
    if err := requireOK(resp); err != nil {
        return nil, err
    }

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}
{{#if (gt items.length 0)}}
<ListCollection
class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
@scroll="native"
@items={{ items }}
@partial={{ 5 }}
as |item|>
<BlockSlot @name="details">

```

```

<div onclick={{ action (optional onclick) item }}>
  <strong class={{ concat 'intent-' item.Action }}>{{ capitalize item.Action }}</strong>
  {{#if (gt item.HTTP.Methods.length 0)}}
    <dl class="permission-methods">
      <dt>
        <Tooltip>
          Methods
        </Tooltip>
      </dt>
      <dd>
        {{#each item.HTTP.Methods as |item|}}
          {{ item }}
        {{/each}}
      </dd>
    </dl>
  {{/if}}
  {{#if item.HTTP.Path}}
    <dl class="permission-path">
      <dt>
        <Tooltip>
          {{ item.HTTP.PathType }}
        </Tooltip>
      </dt>
      <dd>
        {{ item.HTTP.Path }}
      </dd>
    </dl>
  {{/if}}
  {{#each item.HTTP.Header as |item|}}
    <dl class="permission-header">
      <dt>
        <Tooltip>
          Header
        </Tooltip>
      </dt>
      <dd>
        {{ item.Name }} {{ route-match item }}
      </dd>
    </dl>
  {{/each}}
</div>
</BlockSlot>
{{#if onclick}}
<BlockSlot @name="actions" as |Actions|>
  <Actions as |Action|>
    <Action data-test-edit-action @onclick={{ action (optional onclick) item }} @close={{ true }}>
      <BlockSlot @name="label">
        Edit

```



```

    </BlockSlot>
  </Action>
  <Action data-test-delete-action @onclick={{ action ondelete item }} class="dangerous">
    <BlockSlot @name="label">
      Delete
    </BlockSlot>
    <BlockSlot @name="confirmation" as |Confirmation|>
      <Confirmation class="warning">
        <BlockSlot @name="header">
          Confirm delete
        </BlockSlot>
        <BlockSlot @name="body">
          <p>
            Are you sure you want to delete this permission?
          </p>
        </BlockSlot>
        <BlockSlot @name="confirm" as |Confirm|>
          <Confirm>Delete</Confirm>
        </BlockSlot>
      </Confirmation>
    </BlockSlot>
  </Action>
</Actions>
</BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
# Notice

```

Presentational component for informational/warning/error banners/notices.

```

```hbs preview-template
<Notice
 @type={{ this.type }}
 as |notice|>
 <notice.Header>
 <h3>Header</h3>
 </notice.Header>
 <notice.Body>
 <p>
 Body
 </p>
 </notice.Body>
 <notice.Footer>
 <p>
 Footer link
 </p>

```

```

</notice.Footer>
</Notice>

<figure>
<figcaption>Provide a widget to change the <code>@type</code></figcaption>

<select
 onchange={ { action (mut this.type) value="target.value" } }
>
 <option>info</option>
 <option>success</option>
 <option>warning</option>
 <option>error</option>
</select>

</figure>
...

```

## ## Arguments

Argument/Attribute	Type	Default	Description
---	---	---	---
`type`	`String`	`info`	Type of notice [info warning error]

## ## See

- [Template Source Code](./index.hbs)

```

%notice {
 position: relative;
 padding: 0.8rem;
}
%notice header {
 margin-bottom: 0.1rem;
}
%notice header > * {
 margin-bottom: 0;
}
%notice p {
 margin-bottom: 0.3rem;
 line-height: 1.4;
}
/* this is probably skin */
%notice {
 padding-left: calc(0.8rem + 1.4rem);
}
%notice::before {

```

```

position: absolute;
top: 0.8rem;
left: 0.6rem;
font-size: 1rem;
}
@import './skin';
@import './layout';
section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}

%license-route h2 {
 @extend %h200;
}

%license-validity p {
 color: rgb(var(--tone-gray-700));
}
%license-validity dl {
 @extend %horizontal-kv-list;
 font-size: var(--typo-size-400);
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
 content: ";
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: rgb(var(--red-500));
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: rgb(var(--orange-500));
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: rgb(var(--green-500));
}
}

```

```

%license-route-learn-more {
 @extend %panel;
 box-shadow: var(--decor-elevation-000);
 padding: var(--padding-y)
 var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %h300;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
%license-route-learn-more li {
 margin-bottom: 0.25rem; /* 4px */
}
%license-route-learn-more a::before {
 --icon-name: icon-docs-link;
 content: "";
 margin-right: 0.375rem; /* 6px */
}
Copyright 2014-2018 HashiCorp, Inc.

```

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<Notice

class="consul-intention-notice-custom-resource crd"

...attributes

@type={{or @type "info"}}

as |notice|>

<notice.Header>

<h3>

Intention Custom Resource

</h3>

</notice.Header>

<notice.Body>

<p>

Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.

</p>

</notice.Body>

<notice.Footer>

<p>

<a href="{{env 'CONSUL\_DOCS\_URL'}}/k8s/crds" target="\_blank" rel="noopener noreferrer">Learn more about CRDs</a>

```

 </p>
</notice.Footer>
</Notice>
@import './skin';
@import './layout';

%notice {
 margin: 1em 0;
}
/**/
.notice.success {
 @extend %notice-success;
}
.notice.warning {
 @extend %notice-warning;
}
.notice.error {
 @extend %notice-error;
}
.notice.info {
 @extend %notice-info;
}
.notice.highlight {
 @extend %notice-highlight;
}
.notice.policy-management {
 @extend %notice-highlight;
}
.notice.crd::before {
 -webkit-mask-image: none;
 mask-image: none;
 background-color: transparent;
 @extend %with-logo-kubernetes-color-icon;
}
%notice {
 border-radius: var(--decor-radius-100);
 border: var(--decor-border-100);
 color: rgb(var(--tone-gray-999));
}
%notice::before {
 @extend %as-pseudo;
}
%notice header > * {
 @extend %h300;
}
%notice footer * {
 @extend %p3;
 font-weight: var(--typo-weight-bold);
}

```

```

}
%notice-success,
%notice-info,
%notice-highlight,
%notice-error,
%notice-warning {
 @extend %notice;
}
%notice-success {
 background-color: rgb(var(--tone-green-050));
 border-color: rgb(var(--tone-green-500));
}
%notice-success header * {
 color: rgb(var(--tone-green-800));
}
%notice-info {
 border-color: rgb(var(--tone-blue-100));
 background-color: rgb(var(--tone-blue-010));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-highlight {
 background-color: rgb(var(--tone-gray-050));
 border-color: rgb(var(--tone-gray-300));
}
%notice-info header * {
 color: rgb(var(--tone-blue-700));
}
%notice-warning {
 border-color: rgb(var(--tone-yellow-100));
 background-color: rgb(var(--tone-yellow-050));
}
%notice-warning
header * {
 color: rgb(var(--tone-yellow-800));
}
%notice-error {
 background-color: rgb(var(--tone-red-050));
 border-color: rgb(var(--tone-red-500));
}
%notice-error header * {
 color: rgb(var(--tone-red-500));
}
%notice-success::before {
 @extend %with-check-circle-fill-mask;
 color: rgb(var(--tone-green-500));
}

```

```
%notice-info::before {
 @extend %with-info-circle-fill-mask;
 color: rgb(var(--tone-blue-500));
}
%notice-highlight::before {
 @extend %with-star-fill-mask;
 color: rgb(var(--tone-yellow-500));
}
%notice-warning::before {
 @extend %with-alert-triangle-mask;
 color: rgb(var(--tone-orange-500));
}
%notice-error::before {
 @extend %with-cancel-square-fill-mask;
 color: rgb(var(--tone-red-500));
}
```

# 1.491 kisielk-errcheck v1.5.0

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# 1.495 google-pprof v0.0.0-20210720184732-4bb14d4b1be1

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jar/com/mongodb/internal/connection/ReadConcernHelper.java
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jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java  
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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/netty/ReadTimeoutHandler.java

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Found in path(s):

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/annotations/Beta.java

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\*/

/\*\*  
\* Returns an array containing all of the elements in this deque, in  
\* proper sequence (from first to last element).  
\*  
\* <p>The returned array will be "safe" in that no references to it are  
\* maintained by this deque. (In other words, this method must allocate

```
* a new array). The caller is thus free to modify the returned array.
*
* <p>This method acts as bridge between array-based and collection-based
* APIs.
*
* @return an array containing all of the elements in this deque
*/
```

Found in path(s):

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
```

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```
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* limitations under the License.
*
* Original Work: MIT License, Copyright (c) [2015-2018] all contributors
* https://github.com/marianobarrios/tls-channel
*/
/**
* Writes a sequence of bytesProduced to this channel from a subsequence of the
* given buffers.
*
* <p>
* See { @link GatheringByteChannel#write(ByteBuffer[], int, int) } for
more
* details of the meaning of this signature.
*
* <p>
* This method behaves slightly different than the interface specification,
* with respect to non-blocking responses, see { @link #write(ByteBuffer) }
* for more details.
*
* @param srcs The buffers from which bytesProduced are to be retrieved
* @param offset The offset within the buffer array of the first buffer from
* which bytesProduced are to be retrieved; must be non-negative and no
```



```

* larger than <tt>srcs.length</tt>
* @param length The maximum number of buffers to be accessed; must be
* non-negative and no larger than <tt>srcs.length</tt>
* <tt>offset</tt>
* @return The number of bytesProduced written, contrary to the behavior specified
* in { @link ByteChannel}, this method never returns 0, but throws
* { @link WouldBlockException}
* @throws IndexOutOfBoundsException If
the preconditions on the <tt>offset</tt> and
* <tt>length</tt> parameters do not hold
* @throws WouldBlockException if the channel is in non-blocking mode and the IO operation
* cannot be completed immediately
* @throws NeedsTaskException if the channel is not configured to run tasks automatically
* and a task needs to be executed to complete the operation
* @throws SSLException if the { @link SSLEngine} throws a SSLException
* @throws IOException if the underlying channel throws an IOException
*/
/**
* Reads a sequence of bytesProduced from this channel into a subsequence of the
* given buffers.
*
* <p>
* See { @link ScatteringByteChannel#read(ByteBuffer[], int, int)} for more
* details of the meaning of this signature.
*
* <p>
* This method behaves slightly different
than the interface specification,
* with respect to non-blocking responses, see { @link #read(ByteBuffer)} for
* more details.
*
* @param dsts The buffers into which bytesProduced are to be transferred
* @param offset The offset within the buffer array of the first buffer into
* which bytesProduced are to be transferred; must be non-negative and no
* larger than <tt>dsts.length</tt>
* @param length The maximum number of buffers to be accessed; must be
* non-negative and no larger than <tt>dsts.length</tt>
* <tt>offset</tt>
* @return The number of bytesProduced read, or <tt>-1</tt> if the channel has
* reached end-of-stream; contrary to the behavior specified in
* { @link ByteChannel}, this method never returns 0, but throws
* { @link WouldBlockException}
* @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
* <tt>length</tt> parameters do not hold
* @throws WouldBlockException if the channel is in non-blocking mode and the IO operation
* cannot be completed immediately
* @throws NeedsTaskException if the channel is not configured to run tasks automatically
* and a task needs to be executed to complete the operation

```

```
* @throws SSLException if the { @link SSLEngine } throws a SSLException
* @throws IOException if the underlying channel throws an IOException
*/
```

Found in path(s):

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
```

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```

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Found in path(s):

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/annotations/NotThreadSafe.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/annotations/Immutable.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/annotations/ThreadSafe.java
```

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```
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```

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```

Found in path(s):

```
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/gridfs/helpers/package-info.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
```

```

jar/com/mongodb/event/ConnectionPoolListener.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/GetMoreProtocol.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/gridfs/AsyncGridFSUploadStream.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/operation/ReadOperation.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/validator/UpdateFieldNameValidator.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/AsyncListDatabasesIterableImpl.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/session/ClientSession.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/changestream/ChangeStreamDocument.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/connection/TlsChannelStreamFactoryFactory.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DefaultServerMonitorFactory.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/CollectionInfoRetriever.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DnsSrvRecordMonitorFactory.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/Cluster.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/BulkWriteOptions.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ElementExtendingBsonWriter.java
*
/opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/async/client/AsyncAggregateIterable.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/selector/ServerSelector.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/diagnostics/logging/Loggers.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DeleteProtocol.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/CreateViewOptions.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/ChangeEvent.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/model/gejson/Point.java
* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/internal/connection/DefaultConnectionPool.java

```

\*  
/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/AsynchronousSocketChannelStream.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/ReadPreference.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/AbstractMultiServerCluster.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/validator/CollectibleDocumentFieldNameValidator.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ChangeListener.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/Indexes.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/ConnectionSource.java  
\*  
/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/AbstractReferenceCounted.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/netty/NettyBufferProvider.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/geojson/Polygon.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/GSSAPIAuthenticator.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/DeleteOptions.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/OperationExecutorImpl.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java  
\*  
/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/LevelCountingBsonWriter.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoInterruptedException.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/BSONTimestampCodec.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/NoOpSessionContext.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ClusterClockAdvancingSessionContext.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/dns/DefaultDnsResolver.java  
\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/DropCollectionOperation.java  
\*  
/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/changestream/ChangeStreamDocumentCodec.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/AsyncAggregateResponseBatchCursor.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/BulkWriteBatch.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/result/DeleteResult.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/Server.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/management/ConnectionPoolStatisticsMBean.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/geojson/Position.java  
 \*  
 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/selector/PrimaryServerSelector.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncChangeStreamIterable.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/MapReduceInlineResultsAsyncCursor.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/ReturnDocument.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/MapReduceAsyncBatchCursor.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/ConnectionId.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/CommandResultBaseCallback.java  
 \*  
 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/WriteProtocol.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ClusterFactory.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/CreateCollectionOptions.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/InsertOneOptions.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/FindOneAndReplaceOptions.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/ClusterId.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/package-info.java  
 \*  
 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ServerOpeningEvent.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-

jar/com/mongodb/internal/async/client/ClientSessionHelper.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/ConnectionPool.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/client/model/gejson/codecs/GeometryCollectionCodec.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/client/model/changestream/package-info.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/binding/ClusterAwareReadWriteBinding.java  
 \*  
 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/bulk/package-info.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/MongoExecutionTimeoutException.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/async/client/AsyncDistinctIterable.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/operation/Operations.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/QueryMessage.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/MongoCursorNotFoundException.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/connection/ServerVersion.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/diagnostics/logging/SLF4JLogger.java  
 \*  
 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/client/result/UpdateResult.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/DeleteMessage.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/Time.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/FieldTrackingBsonWriter.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/operation/FindAndReplaceOperation.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/binding/ReadBinding.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/connection/SocketStreamFactory.java  
 \*  
 /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/connection/NoOpCommandEventSender.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
 jar/com/mongodb/internal/async/client/gridfs/GridFSIndexCheck.java  
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/event/CommandListenerMulticaster.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/diagnostics/logging/package-info.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/binding/AsyncReadWriteBinding.java  
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 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/operation/ChangeStreamBatchCursor.java  
 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/TagSet.java  
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 \* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/gejson/codecs/MultiPolygonCodec.java  
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/client/result/InsertOneResult.java

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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/Field.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/connection/ClusterType.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/event/EventListenerHelper.java

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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/gejson/codecs/GeometryCodec.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/event/ServerClosedEvent.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/ProtocolExecutor.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/AuthenticationMechanism.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/TextSearchOptions.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/bulk/WriteRequest.java

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/opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/connection/UpdateMessage.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/DBObjectCodecProvider.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/AsyncChangeStreamIterableImpl.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/MongoSecurityException.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/async/client/vault/AsyncClientEncryption.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/internal/selector/ServerAddressSelector.java

\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-jar/com/mongodb/client/model/changestream/OperationTypeCodec.java

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\* /opt/cola/permits/1322233803\_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-  
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/MongoSocketOpenException.java
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* /opt/cola/permits/1322233803_1651784959.94/0/mongodb-driver-core-4-0-5-sources-2-
jar/com/mongodb/assertions/Assertions.java
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# 1.506 go-hclog v1.2.0

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\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/strncpy.h  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/binary\_protocol\_accelerated.h  
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* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/constants.h
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/compact_protocol.h
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/macros.h
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* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/exceptions.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/binary_protocol_accelerated.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/simple_server.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/json_protocol_spec.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/base_server_transport.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/multiplexed_protocol.rb
*
/opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/base_protocol_spec.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/spec_helper.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/socket_spec.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/json_protocol.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/server_spec.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/exception_spec.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/binary_protocol.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/threaded_server.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/benchmark/thin_server.rb
*
/opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/io_stream_transport.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/struct_union.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/processor_spec.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/types_spec.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/namespaced_spec.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/socket_spec_shared.rb
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/unix_server_socket.rb
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gz/lib/thrift/transport/server\_socket.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/extconf.rb  
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/opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/client.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/thin\_http\_server.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/core\_ext/fixnum.rb  
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\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/base\_transport.rb  
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\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/serializer/deserializer.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/http\_client\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/mongrel\_http\_server.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/ExtendedService.thrift  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/server\_socket\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/types.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/BaseService.thrift  
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/opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/processor.rb  
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\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/union\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/multiplexed\_processor.rb  
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\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/compact\_protocol.rb  
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/opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/base\_server.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/socket.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/core\_ext.rb



\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/binary\_protocol\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/struct.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/client\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/ssl\_server\_socket.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/ssl\_server\_socket\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/framed\_transport.rb  
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/opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/binary\_protocol\_spec\_shared.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/base\_transport\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/benchmark/server.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/unix\_socket.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/flat\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/nonblocking\_server\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/struct\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/nonblocking\_server.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/benchmark/benchmark.rb  
\*  
/opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/unix\_socket\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/compact\_protocol\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/binary\_protocol\_accelerated\_spec.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/bytes.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/ssl\_socket.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/buffered\_transport.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/serializer/serializer.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/serializer\_spec.rb  
\*  
/opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/thrift\_native.rb  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/union.rb  
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gz/spec/ThriftNamespacedSpec.thrift  
\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/spec/Referenced.thrift

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* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/bytes.c
*
/opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/strncpy.c
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/thrift_native.c
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/struct.c
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/bytes.h
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-
gz/ext/binary_protocol_accelerated.c
* /opt/cola/permits/1324290287_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/ext/compact_protocol.c
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Thrift Ruby Software Library

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== DESCRIPTION:

Thrift is a strongly-typed language-agnostic RPC system. This library is the ruby implementation for both clients and servers.

== INSTALL:

```
$ gem install thrift
```

== CAVEATS:

This library provides the client and server implementations of thrift. It does `<em>not</em>` provide the compiler for the .thrift files. To compile

.thrift files into language-specific implementations, please download the full thrift software package.

== USAGE:

This section should get written by someone with the time and inclination. In the meantime, look at existing code, such as the benchmark or the tutorial in the full thrift distribution.

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\* /opt/cola/permits/1324290287\_1652137379.4349384/0/thrift-0-16-0-gem/data-tar-gz/README.md

## 1.508 fsnotify 1.5.4

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# 1.509 jwalterweatherman 1.1.0

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# 1.511 netty-transport 4.1.77.Final

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Found in path(s):

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* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/socket/DuplexChannel.java
*
/opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/bootstrap/AbstractBootstrapConfig.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/DefaultSelectStrategy.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/PreferHeapByteBufAllocator.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
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jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/SelectStrategy.java
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jar/io/netty/channel/ChannelOutboundInvoker.java
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/opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/bootstrap/ServerBootstrapConfig.java
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jar/io/netty/bootstrap/BootstrapConfig.java
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jar/io/netty/channel/ChannelInboundInvoker.java
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* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
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*
/opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/DefaultChannelId.java
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jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
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* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
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jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-

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jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/ChannelHandlerAdapter.java
*
/opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/ChannelProgressiveFuture.java
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* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/META-
INF/maven/io.netty/netty-transport/pom.xml
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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/AbstractServerChannel.java  
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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java  
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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-

jar/io/netty/channel/socket/DatagramChannel.java  
\*  
/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/nio/NioEventLoopGroup.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/socket/oio/OioServerSocketChannel.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/embedded/EmbeddedSocketAddress.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/socket/SocketChannelConfig.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/DefaultChannelConfig.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/ThreadPerChannelEventLoop.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/ChannelHandlerContext.java  
\*  
/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/oio/OioEventLoopGroup.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/VoidChannelPromise.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/ChannelPromiseAggregator.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/local/package-info.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/ChannelException.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/ChannelMetadata.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/CombinedChannelDuplexHandler.java  
\*  
/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/DefaultChannelPromise.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/nio/NioEventLoop.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/embedded/EmbeddedChannel.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/bootstrap/ServerBootstrap.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/oio/AbstractOioMessageChannel.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/socket/InternetProtocolFamily.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/EventLoopGroup.java  
\*



/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/ChannelPipeline.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/DefaultEventLoop.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/package-info.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/group/CombinedIterator.java  
\*

/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/group/package-info.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/oio/package-info.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java  
\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java

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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

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jar/io/netty/channel/socket/nio/SelectorProviderUtil.java
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```
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/META-
INF/native-image/io.netty.transport/native-image.properties
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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/StacklessClosedChannelException.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/socket/DuplexChannelConfig.java

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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java

\*

/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/pool/FixedChannelPool.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/pool/ChannelPool.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/pool/SimpleChannelPool.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java

\*

/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java

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jar/io/netty/channel/CoalescingBufferQueue.java

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jar/io/netty/channel/ServerChannelRecvByteBufAllocator.java

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 \* under the License.  
 \*/  
 /\*\*  
 \* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in  
 \* its { @link ChannelPipeline }.  
 \*  
 \* <h3>Sub-types</h3>  
 \* <p>  
 \* { @link ChannelHandler } itself does not provide many methods, but you usually have to implement one of its  
 subtypes:  
 \* <ul>  
 \* <li>{ @link  
 ChannelInboundHandler } to handle inbound I/O events, and</li>  
 \* <li>{ @link ChannelOutboundHandler } to handle outbound I/O operations.</li>  
 \* </ul>  
 \* </p>  
 \* <p>  
 \* Alternatively, the following adapter classes are provided for your convenience:  
 \* <ul>  
 \* <li>{ @link ChannelInboundHandlerAdapter } to handle inbound I/O events,</li>  
 \* <li>{ @link ChannelOutboundHandlerAdapter } to handle outbound I/O operations, and</li>  
 \* <li>{ @link ChannelDuplexHandler } to handle both inbound and outbound events</li>  
 \* </ul>  
 \* </p>  
 \* <p>  
 \* For more information, please refer to the documentation of each subtype.  
 \* </p>  
 \*  
 \* <h3>The context object</h3>  
 \* <p>  
 \* A { @link ChannelHandler } is provided with a { @link ChannelHandlerContext }  
 \* object. A { @link ChannelHandler } is supposed to interact with the  
 \* { @link ChannelPipeline } it belongs to via a context object. Using the  
 \* context object, the { @link ChannelHandler } can pass events upstream or  
 \* downstream, modify the pipeline dynamically,  
 \* or store the information  
 \* (using { @link AttributeKey }s) which is specific to the handler.  
 \*  
 \* <h3>State management</h3>

```

*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
* // your methods here
* }
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler} <Message> {
*
* private boolean loggedIn;
*
* {@code @Override}
* public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) message);
* loggedIn = true;
* } else (message instanceof GetDataMessage) {
* if (loggedIn) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
* } else {
* fail();
* }
* }
* }
* ...
* }
* </pre>

```

\* Because the handler instance has a state variable which is dedicated to
 \* one connection, you have to create a new handler instance for each new
 \* channel to avoid a race condition where a unauthenticated client can get
 \* the confidential information:

```

* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel\(Channel\)}.
* public class DataServerInitializer extends {@link ChannelInitializer} <{@link Channel}> {
* {@code @Override}
* public void initChannel({@link Channel} channel) {
* channel.pipeline().addLast("handler", new DataServerHandler();
* }
* }
*
* </pre>

```

\* <h4>Using [{@link AttributeKey}](#)s</h4>

\* Although it's recommended to use member variables to store the state of a

```

* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
* <pre>
* public interface Message {
* // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}<Message> {
* private final {@link AttributeKey}<{@link Boolean}> auth =
* {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
* {@code @Override}
* public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
* {@link Attribute}<{@link Boolean}> attr = ctx.attr(auth);
* if (message instanceof LoginMessage) {
* authenticate((LoginMessage) o);
* attr.set(true);
* } else (message instanceof GetDataMessage) {
* if (Boolean.TRUE.equals(attr.get())) {
* ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
* } else {
* fail();
* }
* }
* }
* }
* ...
* }
* </pre>
* Now that the
state of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}<{@link Channel}> {
*
* private static final DataServerHandler SHARED = new DataServerHandler();
*
* {@code @Override}
* public void initChannel({@link Channel} channel) {
* channel.pipeline().addLast("handler", SHARED);
* }
* }
* </pre>
*
* <h4>The {@code @Sharable} annotation</h4>
* <p>

```



- \* In the example above which used an { @link AttributeKey },
- \* you might have noticed the { @code @Sharable } annotation.
- \* <p>
- \* If a { @link ChannelHandler } is annotated with the { @code @Sharable }
- \* annotation, it means you can create an instance of the handler just once and
- \* add it to one or more { @link ChannelPipeline }s multiple times without
- \* a race condition.
- \* <p>
- \* If this annotation is not specified, you have to create
- a new handler
- \* instance every time you add it to a pipeline because it has unshared state
- \* such as member variables.
- \* <p>
- \* This annotation is provided for documentation purpose, just like
- \* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
- \*
- \* <h3>Additional resources worth reading</h3>
- \* <p>
- \* Please refer to the { @link ChannelHandler }, and
- \* { @link ChannelPipeline } to find out more about inbound and outbound operations,
- \* what fundamental differences they have, how they flow in a pipeline, and how to handle
- \* the operation in your application.
- \* /

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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/ChannelHandlerMask.java

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/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/EventLoopTaskQueueFactory.java

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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/ReflectiveChannelFactory.java

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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/embedded/EmbeddedChannelId.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-jar/io/netty/channel/PendingWriteQueue.java

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Found in path(s):

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/DefaultChannelHandlerContext.java

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\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

\*

/opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/internal/ChannelUtils.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/PendingBytesTracker.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/internal/package-info.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/bootstrap/FailedChannel.java

\* /opt/cola/permits/1328292302\_1652707776.0674808/0/netty-transport-4-1-77-final-sources-  
jar/io/netty/channel/socket/ChannelOutputShutdownException.java

\*

```
/opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1328292302_1652707776.0674808/0/netty-transport-4-1-77-final-sources-
jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
```

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* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codecs/compression/Lz4XXHash32.java
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* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/CharSequenceValueConverter.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/DefaultHeadersImpl.java
*
/opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/ValueConverter.java
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* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/serialization/ReferenceMap.java
*
/opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/MessageToMessageDecoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/MessageToMessageCodec.java
*
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/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/string/package-info.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java  
\*  
/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/PrematureChannelClosureException.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/Delimiters.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/MessageAggregator.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java  
\*  
/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java  
\*  
/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/serialization/package-info.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/xml/package-info.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/base64/Base64Decoder.java  
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 jar/io/netty/handler/codec/bytes/package-info.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/EncoderException.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java  
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 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
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 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/compression/JZlibEncoder.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/serialization/ClassResolvers.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java  
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 /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/compression/ZlibCodecFactory.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/string/StringEncoder.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/TooLongFrameException.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/LineBasedFrameDecoder.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
 jar/io/netty/handler/codec/base64/package-info.java  
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\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/DecoderException.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/ZlibWrapper.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java  
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 /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/DecoderResult.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/package-info.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java  
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 /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Snappy.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/CodecException.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/DefaultMarshallerProvider.java  
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 /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/serialization/CompatibleObjectEncoder.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/marshalling/MarshallerProvider.java  
 \* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-



jar/io/netty/handler/codec/compression/DecompressionException.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/compression/JdkZlibEncoder.java

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/\*\*

\* Utility class for { @link ByteBuf } that encodes and decodes to and from

\* [Base64](https://en.wikipedia.org/wiki/Base64) notation.

\* <p>

\* The encoding and decoding algorithm in this class has been derived from

\* [Robert Harder's Public Domain](http://iharder.sourceforge.net/current/java/base64/)

\* Base64 Encoder/Decoder</a>.

\*/

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\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/base64/Base64.java

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\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java

\*

/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java

\*

/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java

\*

/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java

```
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/MessageAggregationException.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/DecoderResultProvider.java
*
/opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/FastLz.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
*
/opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
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*/
/*
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*/
/**
```

\* Enumeration of supported Base64 dialects.  
\* <p>  
\* The internal lookup tables in this class has been derived from  
\* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert  
Harder's Public Domain  
\* Base64 Encoder/Decoder</a>.  
\*/

Found in path(s):

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codecs/base64/Base64Dialect.java

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\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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```

*/
/**
 * A decoder that splits the received {@link ByteBuf}s dynamically by the
 * value of the length field in the message. It is particularly useful when you
 * decode a binary message which has an integer header field that represents the
 * length of the message body or the whole message.
 *
 * <p>
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
 * +-----+-----+ +-----+-----+
 * | Length | Actual Content |
 * |---->| Length | Actual Content |
 * | 0x000C | "HELLO, WORLD" | | 0x000C | "HELLO, WORLD" |
 * +-----+-----+ +-----+-----+
 * </pre>
 *
 * <h3>2 bytes length field at offset 0, strip header</h3>
 *
 * Because we can get the length of the content by calling
 * {@link ByteBuf#readableBytes()}, you might want to strip the length
 * field by specifying <tt>initialBytesToStrip</tt>. In this example, we
 * specified <tt>2</tt>, that is same with the length of the length field, to
 * strip the first two bytes.
 *
 * <pre>
 * lengthFieldOffset = 0
 * lengthFieldLength = 2
 * lengthAdjustment = 0
 * initialBytesToStrip = 2 (= the length of the Length field)
 *
 * BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)

```

```

* +-----+-----+ +-----+
* | Length | Actual Content |---->| Actual Content |
* | 0x000C | "HELLO, WORLD" | | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +-----+-----+ +-----+
* | Length | Actual Content |---->| Length | Actual
* Content |
* | 0x000E | "HELLO, WORLD" | | 0x000E | "HELLO, WORLD" |
* +-----+-----+ +-----+
* </pre>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+ +-----+-----+-----+
* | Header 1 | Length | Actual Content |---->| Header 1 | Length | Actual Content |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* | 0xCAFE | 0x00000C | "HELLO, WORLD" |
* +-----+-----+-----+ +-----+-----+-----+

```

```

* </pre>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2 (= the length of Header 1)
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | Length | Header 1 | Actual Content |---->| Length | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE | "HELLO, WORLD" | | 0x00000C | 0xCAFE | "HELLO,
* WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field</h3>
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>. We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset = 1 (= the length of HDR1)
* lengthFieldLength = 2
* lengthAdjustment = 1 (= the length of HDR2)
* initialBytesToStrip = 3 (= the length of HDR1 +
* LEN)
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+-----+-----+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field

```

```

* represents the length of the whole message</h3>
*
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
the length field already includes the whole header length.
* <pre>
* lengthFieldOffset = 1
* lengthFieldLength = 2
* lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
* initialBytesToStrip = 3
*
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----+-----+-----+-----+ +-----+-----+
* | HDR1 | Length | HDR2 | Actual Content |---->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" | | 0xFE | "HELLO, WORLD" |
* +-----+-----+-----+-----+ +-----+-----+
* </pre>
* @see LengthFieldPrepender
*/

```

Found in path(s):

```

* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java

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jar/io/netty/handler/codec/compression/StandardCompressionOptions.java

```



\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/ZstdConstants.java

\*

/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/ZstdEncoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/ZstdOptions.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/CompressionOptions.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/GzipOptions.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/BrotliEncoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Brotli.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/Zstd.java

\*

/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/DeflateOptions.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/BrotliOptions.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/compression/BrotliDecoder.java

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\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-jar/io/netty/handler/codec/Headers.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/DefaultHeaders.java

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jar/io/netty/handler/codec/DatagramPacketDecoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/DatagramPacketEncoder.java

\*

/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/DateFormatter.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/string/LineSeparator.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/CodecOutputList.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/string/LineEncoder.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/compression/ByteBufChecksum.java

\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-

jar/io/netty/handler/codec/compression/CompressionUtil.java

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jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java  
\*

/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionState.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/UnsupportedValueConverter.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/ProtocolDetectionResult.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java  
\* /opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java  
\*

/opt/cola/permits/1328292265\_1652707793.657154/0/netty-codec-4-1-77-final-sources-  
jar/io/netty/handler/codec/HeadersUtils.java

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jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
*
/opt/cola/permits/1328292265_1652707793.657154/0/netty-codec-4-1-77-final-sources-
jar/io/netty/handler/codec/compression/Crc32c.java
```

## 1.513 netty-handler 4.1.77.Final

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```
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/META-
INF/maven/io.netty/netty-handler/pom.xml
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\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java  
\*  
/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/address/package-info.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java

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\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/traffic/package-info.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-

jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java

\*

/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java

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\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/Conscrypt.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java

\*

/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/AbstractSniHandler.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OptionalSslHandler.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/SslClientHelloHandler.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslUtils.java

\*

/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/JdkAlpnSslEngine.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-

jar/io/netty/handler/ssl/ocsp/package-info.java

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\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslSessionId.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/BouncyCastle.java

\*

/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/AsyncRunnable.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/GroupsConverter.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslContextOption.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-

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jar/io/netty/handler/ssl/SslProtocols.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/Ciphers.java
*
/opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/BouncyCastleAlpnSslUtils.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/OpenSslClientSessionCache.java
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jar/io/netty/handler/ssl/util/LazyJavaxX509Certificate.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
*
/opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/SslContextBuilder.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/ClientAuth.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
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jar/io/netty/handler/flow/FlowControlHandler.java

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jar/io/netty/handler/ssl/Java7SslParametersUtils.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/CipherSuiteFilter.java

\*

/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/OpenSslEngine.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/SslContext.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/OpenSslContext.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-

jar/io/netty/handler/ssl/OpenSslSessionContext.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/SslUtils.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/SniHandler.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java  
\*  
/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/JettyNpnSslEngine.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/CipherSuiteConverter.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/JdkSslContext.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/SslProvider.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/OpenSslServerSessionContext.java  
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/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/OpenSslClientContext.java  
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jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ipfilter/IpFilterRule.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
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jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java  
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jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java  
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/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/ApplicationProtocolUtil.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/PemReader.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/util/LazyX509Certificate.java  
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 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ipfilter/package-info.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java  
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 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslDefaultApplicationProtocolNegotiator.java  
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 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java  
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 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslServerContext.java  
 \* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-

jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java

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\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java

\*

/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java

\*

/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java

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```
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/traffic/GlobalChannelTrafficShapingHandler.java
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```
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/pcap/PcapWriter.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/pcap/UDPPacket.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/pcap/PcapHeaders.java
*
/opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/pcap/package-info.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/pcap/TCPHeader.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
```

jar/io/netty/handler/pcap/PcapWriteHandler.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-

jar/io/netty/handler/pcap/EthernetPacket.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-

jar/io/netty/handler/pcap/IPPacket.java

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jar/io/netty/handler/ssl/SslHandshakeCompletionEvent.java

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jar/io/netty/handler/ssl/OpenSslCertificateCompressionAlgorithm.java

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```
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/IdleStateHandler.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutHandler.java
*
/opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/logging/LogLevel.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/package-info.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/stream/ChunkedInput.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/logging/LoggingHandler.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/stream/package-info.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/stream/ChunkedWriteHandler.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/TimeoutException.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/NotSslRecordException.java
*
/opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/stream/ChunkedStream.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutException.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/util/package-info.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
```

```
jar/io/netty/handler/stream/ChunkedNioFile.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/stream/ChunkedNioStream.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/IdleState.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/SslHandler.java
*
/opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/stream/ChunkedFile.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/IdleStateEvent.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/package-info.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/logging/package-info.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/ReadTimeoutException.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/timeout/WriteTimeoutHandler.java
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jar/io/netty/handler/ssl/util/SelfSignedCertificate.java
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jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactoryBuilder.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java  
\*  
/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/logging/ByteBufFormat.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/address/ResolveAddressHandler.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/SslClosedEngineException.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java  
\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-  
jar/io/netty/handler/ipfilter/IpSubnetFilter.java

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\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-

jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java

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\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java

\*

/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/PemValue.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java

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\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/Java8SslUtils.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/PemEncoded.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java

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/opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java

\* /opt/cola/permits/1328292490\_1652707823.7329905/0/netty-handler-4-1-77-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java

```
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/flush/package-info.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/flow/package-info.java
* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
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* /opt/cola/permits/1328292490_1652707823.7329905/0/netty-handler-4-1-77-final-sources-
jar/io/netty/handler/ssl/OpenSslCertificateCompressionConfig.java
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\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

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\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/AddressResolver.java

\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java

\*

\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java

\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java  
\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java  
\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/CompositeNameResolver.java  
\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/InetAddressResolver.java  
\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java  
\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/HostsFileParser.java  
\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/DefaultNameResolver.java

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\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/NameResolver.java

\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/package-info.java

\*

/opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java

\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/SimpleNameResolver.java

\* /opt/cola/permits/1328292323\_1652707801.1524758/0/netty-resolver-4-1-77-final-sources-jar/io/netty/resolver/NoopAddressResolver.java

# 1.515 netty-codec-http 4.1.77.Final

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* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/HttpMessageDecoderResult.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/CompressionEncoderFactory.java
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jar/io/netty/handler/codec/http/multipart/DeleteFileOnExitHook.java
```

\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakeException.java

\*

/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientHandshakeException.java

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\*

/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/HttpServerKeepAliveHandler.java

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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/TooLongHttpContentException.java  
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/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/TooLongHttpHeaderException.java

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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/ReadOnlyHttpHeaders.java  
\*

/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/HttpServerExpectContinueHandler.java

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jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java
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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java

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jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketServerCompressionHandler.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/package-info.java  
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jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java  
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jar/io/netty/handler/codec/http/HttpHeaderValues.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-  
jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateEncoder.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-  
jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java  
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/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-  
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java  
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jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java  
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jar/io/netty/handler/codec/rtsp/RtspHeaderValues.java  
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jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java  
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jar/io/netty/handler/codec/http/HttpMessageUtil.java  
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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java  
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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java

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jar/io/netty/handler/codec/http/websocketx/ContinuationWebSocketFrame.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/DefaultCookie.java
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* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
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* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
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* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
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jar/io/netty/handler/codec/http/multipart/InterfaceHttpPostRequestDecoder.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
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* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/rtsp/RtspResponseDecoder.java
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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-  
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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-  
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jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java  
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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-  
jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java

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* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
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jar/io/netty/handler/codec/http/HttpServerCodec.java
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* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketCloseStatus.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolConfig.java
*
/opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilterProvider.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
```

```
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketDecoderConfig.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker13.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionFilter.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket00FrameDecoder.java
*
/opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker08.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker00.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandler.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/CorruptedWebSocketFrameException.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
*
/opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolHandshakeHandler.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshaker07.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketServerProtocolConfig.java
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* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
*
/opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/CookieUtil.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
*
/opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/package-info.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/HttpUtil.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/Cookie.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/CombinedHttpHeaders.java
*
/opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/HttpScheme.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/cookie/CookieHeaderNames.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/rtsp/RtspDecoder.java
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- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
- \*
- /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java
- \*
- /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
- \* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
- \*

/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java  
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\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java  
\*  
/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java  
\*  
/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyGoAwayFrame.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java  
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/opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdySettingsFrame.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java  
\* /opt/cola/permits/1328292407\_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-



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jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
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/opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketFrameAggregator.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
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jar/io/netty/handler/codec/http/cors/CorsConfig.java
* /opt/cola/permits/1328292407_1652707830.0981853/0/netty-codec-http-4-1-77-final-sources-
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jar/io/netty/handler/codecs/http/cors/CorsConfigBuilder.java
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## 1.516 netty-transport-native-unix-common

### 4.1.77.Final

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*/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/UnixChannelOption.java
*/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/Unix.java
*
*/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/package-info.java
*/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/IOvArray.java
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jar/netty_unix_socket.h
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/DomainSocketAddress.java
*
/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/UnixChannel.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/netty_unix_errors.h
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/Socket.java
*
/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/DomainSocketReadMode.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/netty_unix_socket.c
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/FileDescriptor.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
```

```
jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/NativeInetAddress.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/Errors.java
*
/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/netty_unix_errors.c
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jar/netty_unix_buffer.c
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/netty_unix_buffer.h
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
*
/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/Buffer.java
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\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/io/netty/channel/unix/DomainDatagramPacket.java

\*

/opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/io/netty/channel/unix/DomainDatagramChannelConfig.java

\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/io/netty/channel/unix/SegmentedDatagramPacket.java

\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/io/netty/channel/unix/DomainDatagramSocketAddress.java

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\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/netty\_unix\_limits.h  
\*  
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\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/netty\_unix\_util.h  
\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/netty\_unix\_limits.c  
\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/io/netty/channel/unix/PeerCredentials.java  
\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/io/netty/channel/unix/Limits.java  
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\* /opt/cola/permits/1328292287\_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java  
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jar/io/netty/channel/unix/GenericUnixChannelOption.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
jar/io/netty/channel/unix/RawUnixChannelOption.java
*
/opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
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jar/io/netty/channel/unix/UnixChannelUtil.java
* /opt/cola/permits/1328292287_1652707714.2527666/0/netty-transport-native-unix-common-4-1-77-final-sources-
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## 1.517 netty-transport-classes-epoll

### 4.1.77.Final

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* /opt/cola/permits/1328292392_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-
jar/io/netty/channel/epoll/EpollDomainDatagramChannelConfig.java
*
```

```
/opt/cola/permits/1328292392_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-
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*/
/**
 * Set the {@code TCP_MD5SIG} option on the socket. See {@code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

```

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\* /opt/cola/permits/1328292392\_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java

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\*  
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\* /opt/cola/permits/1328292392\_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java  
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\* /opt/cola/permits/1328292392\_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java  
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\*  
/opt/cola/permits/1328292392\_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java  
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- \* Keys can only be set on, not read to prevent a potential leak, as they are confidential.
- \* Allowing them being read would mean anyone with access to the channel could get them.

```
*/
/**
 * Set the { @code TCP_QUICKACK } option on the socket.
 * See TCP_QUICKACK
 * for more details.
*/
```

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\* /opt/cola/permits/1328292392\_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java  
\*  
/opt/cola/permits/1328292392\_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java  
\* /opt/cola/permits/1328292392\_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java  
\* /opt/cola/permits/1328292392\_1652707742.041335/0/netty-transport-classes-epoll-4-1-77-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

# 1.518 netty 4.1.77.Final

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## Developing

This repository uses [virtualenv](https://pypi.python.org/pypi/virtualenv) and `pip` to manage dependencies.  
To install all dependencies, run:

1. `virtualenv env`
2. `source env/bin/activate`
3. `make bootstrap`
4. `make test`

### Thrift

Thrift files are generated via `make thrift`. The IDL files are pulled from `jaeger-idl` repo which is defined as a submodule.

### pycurl

On MacOS you may get an error:

...

```
ImportError: pycurl: libcurl link-time ssl backend (openssl) is different from compile-time
ssl backend (none/other)
```

...

It can be fixed with:

...

```
pip uninstall pycurl
export LDFLAGS="-L/usr/local/opt/openssl/lib"
export CPPFLAGS="-I/usr/local/opt/openssl/include"
export PYCURL_SSL_LIBRARY=openssl
pip install --no-cache-dir --compile --ignore-installed --install-option="--with-openssl" --install-option="--openssl-dir=/usr/local/opt/openssl" pycurl
```

...

## Making A Change

\*Before making any significant changes, please [open an issue](<https://github.com/jaegertracing/jaeger-client-python/issues>).

Discussing your proposed changes ahead of time will make the contribution process smooth for everyone.

Once we've discussed your changes and you've got your code ready, make sure that tests are passing (`make test`) and open your pull request.

Your pull request is most likely to be accepted if it:

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```
Signed-off-by: Joe Smith <joe@gmail.com>
```

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You can add the sign off when creating the git commit via ``git commit -s``.

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^^^

```
git config --add alias.amend "commit -s --amend"
```

```
git config --add alias.c "commit -s"
```

^^^

Found in path(s):

```
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/CONTRIBUTING.md
```

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update-license:

Found in path(s):

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/Makefile

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license='Apache License 2.0',

Found in path(s):

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\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/span\_context.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/metrics/metrics.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_tracer.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/conftest.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_local\_agent\_net.py

\*

/opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_metrics.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_tracer\_benchmark.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/\_\_init\_\_.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/codecs.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/server.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_codecs.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/tracer.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_config.py

\* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/config.py

\*

/opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_api.py

- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/ioloop\_util.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/reporter.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/thriftrw\_serializer.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/sampler.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/constants.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/\_\_init\_\_.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_sampler.py
- \*

/opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_span.py

- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_span\_context.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_throttler.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_rate\_limiter.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_reporter.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/span.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/TUDPTransport.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/local\_agent\_net.py
- \*

/opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_crossdock.py

- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_thrift.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/serializer.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/\_\_init\_\_.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/thrift.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger\_client/constants.py
- \* /opt/cola/permits/1330069848\_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test\_TUDPTransport.py



```
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_prometheus.py
*
/opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_noop_tracer.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_utils.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/metrics/prometheus.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/rate_limiter.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/tests/test_traceback_log.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/crossdock/server/endtoend.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/utils.py
*
/opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/metrics/__init__.py
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client/throttler.py
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```

Metadata-Version: 2.1

Name: jaeger-client

Version: 4.2.0

Summary: Jaeger Python OpenTracing Tracer implementation

Home-page: <https://github.com/jaegertracing/jaeger-client-python>

Author: Yuri Shkuro

Author-email: [ys@uber.com](mailto:ys@uber.com)

License: Apache License 2.0

Description: UNKNOWN

Keywords: jaeger,tracing,opentracing

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: Apache Software License

Classifier: Natural Language :: English

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: 3.6

Provides-Extra: tests

Found in path(s):

```
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/PKG-INFO
```

```
* /opt/cola/permits/1330069848_1652923718.2967277/0/jaeger-client-4-2-0-tar-gz/jaeger-client-4.2.0/jaeger_client.egg-info/PKG-INFO
```

# 1.523 opentracing-instrumentation 3.3.1

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## 1.525 jsr305 3.0.2

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 */
```

Found in path(s):

```
* /opt/cola/permits/1334730768_1653653249.5131547/0/jsr305-3-0-2-sources-8-
jar/javax/annotation/concurrent/GuardedBy.java
* /opt/cola/permits/1334730768_1653653249.5131547/0/jsr305-3-0-2-sources-8-
jar/javax/annotation/concurrent/NotThreadSafe.java
* /opt/cola/permits/1334730768_1653653249.5131547/0/jsr305-3-0-2-sources-8-
jar/javax/annotation/concurrent/Immutable.java
* /opt/cola/permits/1334730768_1653653249.5131547/0/jsr305-3-0-2-sources-8-
jar/javax/annotation/concurrent/ThreadSafe.java
```

## 1.526 ahero 1.8.2

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# 1.530 jackson-jaxrs-xml-provider 2.13.2

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.

It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn

```



```

 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

```

// LicenseCodesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently.

However, fields must not be modified concurrently with method calls.

//

// The LicenseCodes API.

```
type LicenseCodesClient struct {
```

// The internal transport-dependent client.

```
internalClient internalLicenseCodesClient
```

// The call options for this service.

```
CallOptions *LicenseCodesCallOptions
```

```
}
```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```
func (c *LicenseCodesClient) Close() error {
```

```
 return c.internalClient.Close()
```

```
}
```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
```

```
 c.internalClient.setGoogleClientInfo(keyval...)
```

```
}
```

// Connection returns a connection to the API service.

//

// Deprecated.

```
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
```

```
 return c.internalClient.Connection()
```

```
}
```

//

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```
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
```

```
...gax.CallOption) (*computepb.LicenseCode, error) {
```

```
 return c.internalClient.Get(ctx, req, opts...)
```

```
}
```

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 c := &licenseCodesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()),
 }
}

```

```

}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gpic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}

```

```

e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a

caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {

```

```

return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

headers := buildHeaders(ctx, c.xGoogMetadata,
md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}
}

```

```

 return nil
 }, opts...)
 if e != nil {
 return nil, e
 }
 return resp, nil
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)

```

```

if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See
 https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 //
 // TODO: Use resp.
 _ = resp
}

```

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```

```
package compute
```

```
import (
```

```
 "bytes"
```

```
 "context"
```

```
 "fmt"
```

```
 "io/ioutil"
```

```
 "math"
```

```
 "net/http"
```

```
 "net/url"
```

```
 gax "github.com/googleapis/gax-go/v2"
```

```
 "google.golang.org/api/googleapi"
```

```
 "google.golang.org/api/iterator"
```

```
 "google.golang.org/api/option"
```

```
 "google.golang.org/api/option/internaloption"
```

```
 httptransport "google.golang.org/api/transport/http"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
```

```
 "google.golang.org/grpc"
```

```
 "google.golang.org/grpc/metadata"
```

```
 "google.golang.org/protobuf/encoding/protojson"
```

```
 "google.golang.org/protobuf/proto"
```

```
)
```

```

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete []gax.CallOption
Get []gax.CallOption
GetIamPolicy []gax.CallOption
Insert []gax.CallOption
List []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
(*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions
*LicensesCallOptions
}

// Wrapper methods routed to the internal client.

```

```

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party
// partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

```

```

}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
// Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces
// any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint
 string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.

```

```

func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 c := &licensesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
 option.WithHTTPClient(httpClient),
 option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
 return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient:
 c, CallOptions: &LicensesCallOptions{ }, nil
 }
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the

```



```

client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
return err
}
return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{ }
if req != nil && req.RequestId != nil {
params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery
= params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{ }
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
if err != nil {

```

```

 return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if
err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
}
op := &Operation{
 &globalOperationsHandle{
 c: c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
}

```

```

baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"license", url.QueryEscape(req.GetLicense()))))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.License{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
return nil, e
}
return
resp, nil
}

```

```

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{ }
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{ }
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }
 })
}

```

```

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return
resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *compute.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{ }
 if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject())))

 headers

```

```

:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c:
 c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error)
 {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess",
 fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()
 }
}
```

```

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, "", e
}
it.Response =
resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

```



```

}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if
err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header
= headers

 httpRsp, err := c.httpClient.Do(httpReq)

```

```

if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{ AllowPartial: true }
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil,
 err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

```

```

url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp,
 err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items []*computepb.License
 pageInfo *iterator.PageInfo

```

nextFunc func() error

```
// Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{ }

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
//
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}
```

```
// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}
```

```
// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
 return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}
```

```
func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}
```

```
func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

```
package compute_test
```

```
import (
```

```
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
```

```
 "google.golang.org/api/iterator"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
```

```
)
```

```

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
 // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }

```

```

}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_
= resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }

 err = op.Wait(ctx)

```

```

if err != nil {
 // TODO:
 Handle error.
}
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
 resp, err := it.Next()
 if err == iterator.Done {
 break
 }
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err !=
 nil {
 // TODO: Handle error.

```



```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

```

# 1.537 google-go-cmp v0.5.8

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## 1.538 githubcompelletiergotoml v1.9.5

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localtime.go, localtime\_test.go:

Originals:

<https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go>

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Changes:

\* Renamed files from civil\* to localtime\*.

\* Package changed from civil to toml.

\* 'Local' prefix added to all structs.

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# 1.539 motor 2.4.0

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\* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/binary\_protocol\_accelerated.c  
\*  
\* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/bytes.h  
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gz/ext/binary_protocol_accelerated.h
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/opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/struct.h
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* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/compact_protocol.h
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/strncpy.h
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/memory_buffer.h
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* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/union_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/binary_protocol_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/spec_helper.rb
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* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/core_ext.rb
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/opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/socket.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/processor_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/http_client_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/multiplexed_processor.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/multiplexed_protocol.rb
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* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/flat_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/framed_transport.rb
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```

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*
/opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/serializer/deserializer.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/server_socket_spec.rb
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* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/json_protocol_spec.rb
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* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/server/base_server.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/spec/thin_http_server_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/transport/memory_buffer_transport.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/transport/server_socket.rb
*
/opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/socket_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/protocol/binary_protocol.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/base_protocol_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/spec/binary_protocol_accelerated_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/transport/unix_server_socket.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/spec/compact_protocol_spec.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/protocol/json_protocol.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/protocol/binary_protocol_accelerated.rb
*
/opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/lib/thrift/transport/buffered_transport.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/server_spec.rb

```

- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/thrift\_native.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/BaseService.thrift
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/exceptions.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/ssl\_socket\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/nonblocking\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/ssl\_socket.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/ExtendedService.thrift
- \*
- /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/thin\_http\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/processor.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/namespaced\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/compact\_protocol.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/mongrel\_http\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/protocol/base\_protocol.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/union.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/io\_stream\_transport.rb
- \*
- /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/base\_transport.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/serializer/serializer.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/ext/extconf.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/struct\_union.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/unix\_socket\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/exception\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/benchmark.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/simple\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/bytes.rb
- \*
- /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/server/threaded\_server.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/types\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/struct\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/client.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/lib/thrift/transport/ssl\_server\_socket.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/serializer\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/bytes\_spec.rb
- \* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/Benchmark.thrift



```
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/spec/client_spec.rb
*
/opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-
gz/spec/binary_protocol_spec_shared.rb
* /opt/cola/permits/1343792944_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/benchmark/thin_server.rb
No license file was found, but licenses were detected in source scan.
```

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== DESCRIPTION:

Thrift is a strongly-typed language-agnostic RPC system. This library is the ruby implementation for both clients and servers.

== INSTALL:

```
$ gem install thrift
```

== CAVEATS:

This library provides the client and server implementations of thrift. It does *not* provide the compiler for the .thrift files. To compile .thrift files into language-specific implementations, please download the full thrift software package.

== USAGE:

This section should get written by someone with the time and inclination.  
In the meantime, look at existing code, such as the benchmark or the tutorial  
in the full thrift distribution.

Found in path(s):

\* /opt/cola/permits/1343792944\_1655154206.7248805/0/thrift-0-16-0-gem/data-tar-gz/README.md

## 1.541 activation-api 1.2.2

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The project maintains the following source code repositories:

\* <https://github.com/eclipse-ee4j/jaf>

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JUnit (4.12)

\* License: Eclipse Public License

## 1.542 failureaccess 1.0.1

### 1.542.1 Available under license :

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Found in path(s):

\* /opt/cola/permits/1349013147\_1655879756.6643403/0/failureaccess-1-0-1-sources-4-  
jar/com/google/common/util/concurrent/internal/InternalFutures.java

\* /opt/cola/permits/1349013147\_1655879756.6643403/0/failureaccess-1-0-1-sources-4-  
jar/com/google/common/util/concurrent/internal/InternalFutureFailureAccess.java

## 1.543 charset-normalizer 2.1.0

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```

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```
*
```

```
* maglev_fips is a python module that gives you access to 2 functions of CiscoSSL
```

```
* or FIPS compliant OpenSSL. They are FIPS_mode() which checked if the FIPS mode
```

```
* is enabled in the library, and FIPS_mode_set() which sets (or unsets) FIPS mode.
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*/
```

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```
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```

```
* /opt/cola/permits/1230758053_1657923836.2243383/0/maglev-fips-1-0-0-tar-gz/maglev-fips-1.0.0/setup.py
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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```
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingListMultimap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingSetMultimap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingImmutableCollection.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/MinMaxPriorityQueue.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/SortedMapDifference.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/RowSortedTable.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/AbstractSequentialIterator.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/UnmodifiableListIterator.java
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jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/CommonMatcher.java
*
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jar/com/google/common/base/PatternCompiler.java
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 */
/**
 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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 */
```

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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/ForwardingLoadingCache.java

\*

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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/hash/Hasher.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/RemovalListeners.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/net/HttpHeaders.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/primitives/UnsignedInts.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingExecutorService.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/CacheLoader.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/LoadingCache.java

\*

/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/CacheBuilderSpec.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-

jar/com/google/common/net/MediaType.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/primitives/UnsignedLongs.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/hash/AbstractCompositeHashFunction.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/hash/AbstractStreamingHasher.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/cache/AbstractCache.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/collect/EmptyContiguousSet.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/util/concurrent/ForwardingCheckedFuture.java  
 \*  
 /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/hash/BloomFilter.java  
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 jar/com/google/common/collect/AbstractSortedMultiset.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/net/HostAndPort.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/cache/Cache.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/hash/HashingOutputStream.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/hash/PrimitiveSink.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/math/BigIntegerMath.java  
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 jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
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 jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/primitives/ParseRequest.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/collect/TreeRangeSet.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/cache/ForwardingCache.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/hash/Murmur3\_32HashFunction.java  
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 jar/com/google/common/math/package-info.java  
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 /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/hash/Crc32cHashFunction.java



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 jar/com/google/common/hash/Funnel.java  
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 jar/com/google/common/util/concurrent/WrappingExecutorService.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
 jar/com/google/common/math/DoubleMath.java  
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 jar/com/google/common/base/Present.java  
 \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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 jar/com/google/common/math/MathPreconditions.java

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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/UnsignedLong.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
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jar/com/google/common/collect/JdkBackedImmutableMap.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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jar/com/google/common/collect/JdkBackedImmutableBiMap.java

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jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/FilteredMultimapValues.java  
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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/reflect/TypeVisitor.java  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/eventbus/SubscriberExceptionContext.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/Runnables.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/base/Utf8.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/io/CharSequenceReader.java  
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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/base/VerifyException.java  
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jar/com/google/common/hash/FarmHashFingerprint64.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/AsyncCallable.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ConsumingQueueIterator.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/hash/MacHashFunction.java  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/InterruptibleTask.java  
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jar/com/google/common/util/concurrent/AggregateFutureState.java  
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jar/com/google/common/collect/JdkBackedImmutableMultiset.java
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jar/com/google/common/util/concurrent/ExecutionSequencer.java
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jar/com/google/common/collect/JdkBackedImmutableSet.java
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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
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Found in path(s):

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/hash/SipHashFunction.java



\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/reflect/ClassPath.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/FilteredKeyMultimap.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/hash/LongAddables.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/LongAddables.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/base/StandardSystemProperty.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ImmutableRangeSet.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/hash/ChecksumHashFunction.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/html/package-info.java

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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/LongAddable.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/SmoothRateLimiter.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/hash/AbstractByteHasher.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ImmutableRangeMap.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/io/ByteSource.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/reflect/Element.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/escape/package-info.java

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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/RateLimiter.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/reflect/Parameter.java

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jar/com/google/common/math/LinearTransformation.java  
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jar/com/google/common/reflect/MutableTypeToInstanceMap.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/ServiceManager.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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jar/com/google/common/io/Closer.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/CartesianList.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/CharSource.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/xml/package-info.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/math/StatsAccumulator.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/reflect/TypeCapture.java  
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\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* `java.util.HashMap`  
class.  
\*/

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jar/com/google/common/hash/package-info.java  
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- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/package-info.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/Multimap.java
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- /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/HashMultiset.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/Multimaps.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/CompoundOrdering.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/HashMultimap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/SetMultimap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/Iterables.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ForwardingSortedMap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/NullsLastOrdering.java
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- /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/NaturalOrdering.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/BiMap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ArrayListMultimap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/EnumBiMap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/Lists.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ComparatorOrdering.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/AbstractIterator.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-

jar/com/google/common/collect/ReverseOrdering.java  
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jar/com/google/common/primitives/ImmutableDoubleArray.java  
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jar/com/google/common/util/concurrent/ForwardingCondition.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/primitives/ImmutableLongArray.java

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jar/com/google/common/hash/AbstractHashFunction.java  
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jar/com/google/common/util/concurrent/ForwardingLock.java  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/eventbus/SubscriberRegistry.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
\*  
/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/math/Quantiles.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/eventbus/Subscriber.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/ListenerCallQueue.java

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```
jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/AbstractBaseGraph.java
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* limitations under the License.
*/
/**
* Returns an array containing all of the elements in the specified collection. This method
* returns the elements in the order they are returned by the collection's iterator. The returned
* array is "safe" in that no references to it are maintained by the collection. The caller is
* thus free to modify the returned
array.
*
* <p>This method assumes that the collection size doesn't change while the method is running.
*
* <p>TODO(kevinb): support concurrently modified collections?
*
* @param c the collection for which to return an array of elements
*/
```

```
Found in path(s):
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ObjectArrays.java
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/SortedMultiset.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/SortedMultisets.java

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/\*  
\* This following method is a modified version of one found in  
\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>  
\* which contained the following notice:  
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\* Other contributors include Andrew Wright, Jeffrey Hayes, Pat Fisher, Mike Judd.  
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jar/com/google/common/util/concurrent/MoreExecutors.java

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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/eventbus/package-info.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/base/Suppliers.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/primitives/Primitives.java  
\*  
/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/CountingOutputStream.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/Files.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/base/Charsets.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/Resources.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/package-info.java  
\*  
/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/eventbus/DeadEvent.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/base/Predicates.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-

```

jar/com/google/common/base/Objects.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/Interners.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/LineBuffer.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/HashBiMap.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/eventbus/AllowConcurrentEvents.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/package-info.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/CountingInputStream.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/Supplier.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/Function.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/FinalizableSoftReference.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/eventbus/EventBus.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/FinalizablePhantomReference.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/eventbus/AsyncEventBus.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/ListenableFuture.java

```

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/base/Defaults.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/eventbus/Subscribe.java  
\*

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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/EnumMultiset.java  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/WellBehavedMap.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/AtomicLongMap.java  
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*/
/*
* This method was rewritten in Java from an intermediate step of the Murmur hash function in
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*/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/Hashing.java
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jar/com/google/common/collect/Streams.java
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/hash/Striped64.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/hash/LongAdder.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/AtomicDoubleArray.java

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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/base/Ascii.java  
\*  
/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/net/package-info.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/base/Strings.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-

```
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/annotations/package-info.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/Monitor.java
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```
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/escape/UnicodeEscaper.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/ListenableFutureTask.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
```



```

jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/Longs.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/net/InetAddresses.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/Floats.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/Bytes.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/net/PercentEscaper.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/FileBackedOutputStream.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/MultiReader.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/internal/Finalizer.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/FluentIterable.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/Converter.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/Joiner.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/primitives/Booleans.java
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jar/com/google/common/collect/MultimapBuilder.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ImmutableMapEntry.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/MoreFiles.java

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jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/net/UrlEscapers.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/net/InternetDomainName.java

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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/ForwardingFluentFuture.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/cache/CacheBuilder.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-

jar/com/google/common/util/concurrent/JdkFutureAdapters.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/escape/ArrayBasedCharEscaper.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/ByteProcessor.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/base/Splitter.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/io/ByteArrayDataOutput.java  
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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/annotations/GwtIncompatible.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/primitives/SignedBytes.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/Service.java  
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jar/com/google/common/util/concurrent/ForwardingListenableFuture.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/DenseImmutableTable.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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jar/com/google/common/html/HtmlEscapers.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/annotations/GwtCompatible.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/MapMaker.java  
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jar/com/google/common/util/concurrent/AbstractService.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/RegularImmutableTable.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/xml/XmlEscapers.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/net/HostSpecifier.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/escape/Platform.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/io/LineProcessor.java  
\*  
/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/reflect/TypeResolver.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/util/concurrent/AbstractIdleService.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/MapMakerInternalMap.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/io/ByteArrayDataInput.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/cache/ReferenceEntry.java  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-

jar/com/google/common/io/AppendableWriter.java  
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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/AbstractTransformFuture.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/CollectionFuture.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/FuturesGetChecked.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
\*  
/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/TimeoutFuture.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/TimeLimiter.java  
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jar/com/google/common/util/concurrent/FluentFuture.java  
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jar/com/google/common/base/CaseFormat.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/reflect/TypeToken.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
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jar/com/google/common/util/concurrent/AggregateFuture.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/annotations/VisibleForTesting.java  
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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/SimpleTimeLimiter.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/util/concurrent/Futures.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/escape/CharEscaper.java  
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jar/com/google/common/collect/ImmutableSortedAsList.java

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jar/com/google/common/collect/SingletonImmutableTable.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ImmutableTable.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/DiscreteDomain.java

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/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/EmptyImmutableSetMultimap.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ImmutableEnumSet.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ForwardingTable.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ImmutableSetMultimap.java

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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
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jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableClassToInstanceMap.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableSortedMap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/AbstractIndexedListIterator.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/RegularImmutableSortedSet.java
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```
*/
```

```
/**
```

```
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
```

```
*
```

```
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler
wouldn't recognize
```

```
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
```

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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/Tables.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ImmutableMap.java

\*

/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ImmutableMultimap.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/Platform.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ImmutableMultiset.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ImmutableEntry.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/HashBasedTable.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/RegularImmutableBiMap.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ImmutableBiMap.java

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ImmutableCollection.java



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*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/CollectPreconditions.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/RegularImmutableMap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/TreeBasedTable.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableMapValues.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/UnmodifiableIterator.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/Serialization.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/SingletonImmutableBiMap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableMapEntrySet.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableListMultimap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/EmptyImmutableListMultimap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/Table.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableMapKeySet.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/StandardRowSortedTable.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableSortedSet.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/StandardTable.java
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- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/TreeRangeMap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/TreeTraverser.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
- \*
- /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/FilteredKeySetMultimap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ForwardingNavigableMap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/FilteredSetMultimap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/FilteredMultimap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/EvictingQueue.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/AbstractMultimap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/RangeMap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/FilteredEntryMultimap.java
- \*
- /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/DescendingMultiset.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/ForwardingImmutableList.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/CompactHashMap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/TransformedListIterator.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/AbstractNavigableMap.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/SortedMultisetBridge.java
- \* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-jar/com/google/common/collect/FilteredEntrySetMultimap.java

```

*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/AllEqualOrdering.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/FilteredKeyListMultimap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingDeque.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingBlockingDeque.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingNavigableSet.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/TransformedIterator.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/DescendingImmutableSortedSet.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingImmutableMap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ForwardingImmutableSet.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/RegularImmutableAsList.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/ImmutableEnumMap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/CompactLinkedHashMap.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/CompactHashSet.java
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/CollectSpliterators.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/graph/package-info.java  
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/\*\*

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

Found in path(s):

\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java  
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\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/AbstractRangeSet.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/SortedIterable.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ImmutableSortedMultiset.java  
\*  
/opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/GeneralRange.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/RegularImmutableSortedMultiset.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/RangeSet.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/Count.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java  
\* /opt/cola/permits/1445009384\_1666079669.0514464/0/guava-26-0-jre-sources-  
jar/com/google/common/collect/ForwardingSortedMultiset.java  
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*/
/*
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```
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/base/SmallCharMatcher.java
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```
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/ImmutableGraph.java
```

```
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/collect/TopKSelector.java
```

```
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
```

```
*
 /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/Network.java
```

```
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/PredecessorsFunction.java
```

```
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/io/RecursiveDeleteOption.java
```

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* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
```

```
jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/Graphs.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/ImmutableNetwork.java
* /opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/Graph.java
*
/opt/cola/permits/1445009384_1666079669.0514464/0/guava-26-0-jre-sources-
jar/com/google/common/graph/MutableGraph.java
```

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## 1.603 boto3 1.24.95

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boto3

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**1.604 x-sys 0.0.0-20220722155257-  
8c9f86f7a55f**

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## 1.605 aws-smithy-go 1.13.3

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# 1.606 aws-aws-sdk-go-v2 1.16.19

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```
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```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{ }
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
```

```

*
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
}
}

```



```

err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
}
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 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.

```

```

Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
}
}

```

```

 OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))

```



```

(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.

```

```

//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
 }
}

```

```

 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
 err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)

```

```

if err != nil {
 return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 // * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```

}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

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```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
 c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```

out := result.(*DeleteLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {

```

```

 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
//

```

```

// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```



```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the
operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options);
 err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutLicense(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}

```

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"

```

```

awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

```

```
}
```

```
func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if
 err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

## 1.607 aws-aws-sdk-go-v2-internal- configsources 1.1.23

### 1.607.1 Available under license :

```

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
if params == nil {
params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
//
// *
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

```

```

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
 if err != nil {
 return
 }
 err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"

```



```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //

```

```

// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err

```

```

= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Checks in the specified license. Check in a license when it is no longer in use.

```

```

func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

}

out := result.(*CheckInLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{

```

```

return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.

```

```
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
```



Information about the license.  
LicenseMetadata []types.Metadata

noSmithyDocumentSerde  
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.  
LicenseArn \*string

// License status.  
Status types.LicenseStatus

// License version.  
Version \*string

// Metadata pertaining to the operation's result.  
ResultMetadata middleware.Metadata

noSmithyDocumentSerde  
}

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
}
```

```

if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}

```

```

}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.

```

```

LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.

```

```

DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
}

```

```

if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"

```

```

)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{} , middleware.After)
 if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {

```

```

return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}
}

```



```

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 // identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

```

```

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the
operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {

```

```

return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options);
err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
}
}

```

```
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
 }
}
```

# 1.608 aws-aws-sdk-go-v2 1.12.17

## 1.608.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }
}
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```
 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {
```

```
 // Filters to scope the results. The following filters are supported:
 //
 //
 *
 // ProductSKU
 //
}
```

```

// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
}

```

```

}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListReceivedLicenses",
}
}
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
if params == nil {
params = &CheckoutBorrowLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutBorrowLicenseInput struct {

```

```

// Unique, case-sensitive identifier that you
// provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

```



```

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Checks in the specified license. Check in a license when it is no longer in use.
```

```
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{ }
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
```

```
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckInLicenseInput struct {
```

```
 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string
```

```
 // License beneficiary.
 Beneficiary
 *string
```

```
 noSmithyDocumentSerde
}
```

```
type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

```

```

}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

```

```

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {

```

```

return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {

```



```

 return
 err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListLicensesInput struct {

```

```

// Filters to scope the results. The following filters are supported:

```

```

//

```

```

// *

```

```

// Beneficiary

```

```

//

```

```

// * ProductSKU

```

```

//

```

```

// * Fingerprint

```

```

//

```

```

//

```

```

* Status

```

```

Filters []types.Filter

```

```

// Amazon Resource Names (ARNs) of the licenses.

```

```

LicenseArns []string

```

```

// Maximum number of results to return in a single call.

```

```

MaxResults *int32

```

```

// Token for the next set of results.

```

```

NextToken *string

```

```

noSmithyDocumentSerde

```

```

}

```

```

type ListLicensesOutput struct {

```

```

// License details.

```

```

Licenses []types.License

```

```

// Token for the next set of results.

```

```

NextToken *string

```

```

// Metadata pertaining to the operation's result.

```

```

ResultMetadata middleware.Metadata

```

```

noSmithyDocumentSerde

```

```

}

```

```

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}

```

```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```

}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {

```

```

return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

```

```

// Unique, case-sensitive
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the
operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options);
 err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {

```

```

return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"

```

```

"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```



```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}

```

## 1.609 aws-aws-sdk-go-v2-internal-endpoints

### 2.4.17

#### 1.609.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists received licenses.

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {

```

```

if params == nil {
 params = &ListReceivedLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

```

```

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense
}

```

```

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
}

```

```

if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

```

```

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
}

```

```

err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}

```



```

}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)

```

```

out.ResultMetadata = metadata
return out, nil
}

type CheckInLicenseInput struct {

// License consumption token.
//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 }
}

```

```

 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

```

```
// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
```

```

}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 // * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

```



```

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}

```

```

}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```

"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

```



```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense {}, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense {}, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}

```

```

}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {

```

```

if params == nil {
 params = &GetLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```
type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 // identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}
```

```
type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
```

```

Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the
operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
}

```

```

if err = addHTTPSignerV4Middleware(stack, options);
err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}

```



# 1.610 aws-aws-sdk-go-v2 1.9.17

## 1.610.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
```

```

// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)

```

```

*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //

```

```

// This member is required.
ClientToken *string

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

```

```

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (

```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)

```



```

if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),

```

```

middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {

```

```

return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CreateLicenseInput struct {

// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure
the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional configuration
// for workloads running with continuous connectivity. Choose a borrow
// configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

```

```

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}

```

```

}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}

```

```

 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)

```

```

if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {

```



```

return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
return err
}
return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "ListLicenses",
}
}
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
```

```

//
// This member is required.
LicenseArn *string

// Current version of the
license.
//
// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
}

```

```

}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,

```



```

ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "DeleteLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
if params == nil {
params = &CheckoutLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type CheckoutLicenseInput struct {

// Checkout type.
//
// This member is required.
CheckoutType types.CheckoutType

// Unique, case-sensitive
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.

```

```

ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

```

```

// Metadata pertaining to the
operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options);
 err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.

```

```

func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)

```

```

if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
}

```

## 1.611 aws-aws-sdk-go-v2-internal-ini 1.3.24

### 1.611.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Lists received licenses.

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }
}

```

```

result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
if err != nil {

```

```

 return nil, err
}

out := result.(*ListReceivedLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
}

```



```

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=

```

```

nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

// Checks out the specified license for offline use.

```

func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {

```

```

params = &CheckoutBorrowLicenseInput{ }
}

result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CheckoutBorrowLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```

type CheckoutBorrowLicenseInput struct {

```

```

// Unique, case-sensitive identifier that you
provide to ensure the idempotency of
// the request.

```

```

//

```

```

// This member is required.

```

```

ClientToken *string

```

```

// Digital signature method. The possible value is JSON Web Signature (JWS)
// algorithm PS384. For more information, see RFC 7518 Digital Signature with
// RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).

```

```

//

```

```

// This member is required.

```

```

DigitalSignatureMethod types.DigitalSignatureMethod

```

```

// License entitlements. Partial checkouts are not supported.

```

```

//

```

```

// This member is required.

```

```

Entitlements []types.EntitlementData

```

```

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.

```

```

//

```

```

// This member is required.

```

```

LicenseArn *string

```

```

// Information about constraints.

```

```

CheckoutMetadata []types.Metadata

```

```

// Node ID.

```

```

NodeId *string

```

```

noSmithyDocumentSerde

```

```

}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.

```

```

//
// This member is required.
LicenseConsumptionToken *string

// License beneficiary.
Beneficiary
*string

noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}

```

```

}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```



```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration
}

```

```

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

```

```

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
}

```

```

}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"

```

```

smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 // * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

```

```

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
 err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Deletes the specified license.
```

```

func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date on which the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {

```

```

 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
}

```



```

if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
 return err
}
}

```

```

return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

```

```

// Unique, case-sensitive
identifier that you provide to ensure the idempotency of
// the request.
//
// This member is required.
ClientToken *string

// License entitlements.
//
// This member is required.
Entitlements []types.EntitlementData

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

```

```

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the
operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options);
 err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
}

```

```

if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}

```

## 1.612 aws-aws-sdk-go-v2 1.11.23

### 1.612.1 Available under license :

// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //
 // *
 // ProductSKU
 //
 // * Status
 //
 // * Fingerprint
 //
 // * IssuerName
 //
 // * Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

```

```

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}

```

```

}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}

```



AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licenseseanager
```

```
import (
```

```
 "context"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
```

```
 "github.com/aws/aws-sdk-go-v2/service/licenseseanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
```

```
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)
```

```
// Checks out the specified license for offline use.
```

```
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
```

```
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
```

```
 if params == nil {
```

```
 params = &CheckoutBorrowLicenseInput{}
```

```
 }
```

```
 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
```

```
 c.addOperationCheckoutBorrowLicenseMiddlewares)
```

```
 if err != nil {
```

```
 return nil, err
```

```
 }
```

```
 out := result.(*CheckoutBorrowLicenseOutput)
```

```
 out.ResultMetadata = metadata
```

```
 return out, nil
```

```
}
```

```
type CheckoutBorrowLicenseInput struct {
```

```
 // Unique, case-sensitive identifier that you
```

```
 // provide to ensure the idempotency of
```

```
 // the request.
```

```
 //
```

```
 // This member is required.
```

```
 ClientToken *string
```

```
 // Digital signature method. The possible value is JSON Web Signature (JWS)
```

```
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
```

```
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
```

```
 //
```

```
 // This member is required.
```

```

DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

```

```

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
}

```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```
package licensemanager
```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```
// Checks in the specified license. Check in a license when it is no longer in use.
```

```

func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {

```

```

return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack,
options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}

```

```

}
if err = addRequestResponseLogging(stack, options); err != nil
{
return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CheckInLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
if params == nil {
params = &CreateLicenseInput{}
}

result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
if err != nil {
return nil, err
}

out := result.(*CreateLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

```

```
type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
```



```

// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack);

```

```

err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil

```

```

}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "CreateLicense",
}
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
if params == nil {
params = &ListLicensesInput{}
}

result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
if err != nil {
return nil, err
}

out := result.(*ListLicensesOutput)
out.ResultMetadata = metadata
return out, nil
}

type ListLicensesInput struct {

// Filters to scope the results. The following filters are supported:
//
// *
// Beneficiary
//

```

```

// * ProductSKU
//
// * Fingerprint
//
//
* Status
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);

```

```

err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
}
}
```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
```

```

// This member is required.
SourceVersion *string

noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

// Date on which the license is deleted.
DeletionDate *string

// License status.
Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack,
options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}
}

```

```

if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 // Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive
 identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData
}

```

```

// Key fingerprint identifying the license.
//
// This member is required.
KeyFingerprint *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// License beneficiary.
Beneficiary *string

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

// Checkout type.
CheckoutType types.CheckoutType

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the
operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

```

```

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options);
 err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {

```



```

 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

```

```

package licensemanager

```

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Gets detailed information about the specified license.

```

```

func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }
}

```

```

result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,

```

```

c.addOperationGetLicenseMiddlewares)
if err != nil {
 return nil, err
}

out := result.(*GetLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version
 *string

 noSmithyDocumentSerde
}

type GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {

```

```

return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack,

```

```

options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "GetLicense",
}
}
}

```

# 1.613 aws-aws-sdk-go 1.16.16

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## 1.617 [github.com/frankban/quicktest](https://github.com/frankban/quicktest) v1.14.3

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# 1.619 go.etcd.io/etcd/client/v3 v3.5.4

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## 1.622 datadog-go v3.2.0

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)
```

```
var
 newLicenseCodesClientHook clientHook
```

```
// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
```

```

type LicenseCodesCallOptions struct {
 Get []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
// However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

```

```

}

//
Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}

c := &licenseCodesRESTClient{
endpoint: endpoint,
httpClient: httpClient,
}
c.setGoogleClientInfo()

```

```

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()),
}
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gopic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}

//
Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)

```

```

if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp,
err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err
:= m.Marshal(body)
 if err != nil {
 return nil, err
 }

```

```

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return
rsp, nil
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (
```

```
 "bytes"
```

```
 "context"
```

```
 "fmt"
```

```
 "io/ioutil"
```

```
 "math"
```

```
 "net/http"
```

```
 "net/url"
```

```
 gax "github.com/googleapis/gax-go/v2"
```

```
 "google.golang.org/api/googleapi"
```

```
 "google.golang.org/api/iterator"
```

```
 "google.golang.org/api/option"
```

```
 "google.golang.org/api/option/internaloption"
```

```
 httptransport "google.golang.org/api/transport/http"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
```

```
 "google.golang.org/grpc"
```

```
 "google.golang.org/grpc/metadata"
```

```
 "google.golang.org/protobuf/encoding/protojson"
```

```
 "google.golang.org/protobuf/proto"
```

```
)
```

```
var
```

```
 newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
```

```
type LicensesCallOptions struct {
```

```
 Delete []gax.CallOption
```

```
 Get []gax.CallOption
```

```
 GetIamPolicy []gax.CallOption
```

```
 Insert []gax.CallOption
```

```
 List []gax.CallOption
```

```
 SetIamPolicy []gax.CallOption
```

```
 TestIamPermissions []gax.CallOption
```

```
}
```

```
// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
```

```
type internalLicensesClient interface {
```

```
 Close() error
```

```

setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
(*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

```

// LicensesClient is a client for interacting with Google Compute Engine API.

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

//

// The Licenses API.

```

type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

```

// The call options for this service.

```

CallOptions
*LicensesCallOptions
}

```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when

// the client is no longer required.

```

func (c *LicensesClient) Close() error {
return c.internalClient.Close()
}

```

// setGoogleClientInfo sets the name and version of the application in

// the `x-goog-api-client` header passed on each request. Intended for

// use by Google-written clients.

```

func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

```

// Connection returns a connection to the API service.

//

// Deprecated.

```

func (c *LicensesClient) Connection() *grpc.ClientConn {

```

```

return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource.
Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

```

```

}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
 // The http endpoint to connect
 // to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 c := &licensesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com/"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com/"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 }
}

```

```

 internaloption.WithDefaultScopes(DefaultAuthScopes()),
 }
}

//
setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified
license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{ }
 if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
}

```

```

httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp);
err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for

```

```

k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl,
 _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{ }
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
}

```

```

}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true,
DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{ }

```



```

if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if
err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of
// publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud
// or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud

```

Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",
 req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, "", err
 }

 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 }
}
```

```

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if
err != nil {
 return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func
(c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {

```

```

return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
return nil, err
}

buf,
err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {

```

```

m := protojson.MarshalOptions{ AllowPartial: true }
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{ AllowPartial: true, DiscardUnknown: true }
rsp := &computepb.TestPermissionsResponse{ }

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {

```

```

items []*computepb.License
pageInfo *iterator.PageInfo
nextFunc func() error

//
Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{ }

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
Next() (*computepb.License, error) {
var item *computepb.License
if err := it.nextFunc(); err != nil {
return item, err
}
item = it.items[0]
it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int {
return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
}
// Copyright 2021 Google LLC
//

```

```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }

```

```

resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See
 https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 //
 // TODO: Use resp.
 _ = resp
}

```

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```
package compute_test
```

```
import (
 "context"
```

```

compute "cloud.google.com/go/compute/apiv1"
"google.golang.org/api/iterator"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 resp, err := c.Delete(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{

```

```

// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy()
{
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
}

```

```

// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_List() {
 ctx :=
 context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
 resp, err := it.Next()
 if err == iterator.Done {
 break
 }
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
}

```



```

_ = resp
}

func
ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
// TODO: Fill request struct fields.
// See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

```

# 1.624 go.etcd.io/etcd/api/v3 v3.5.4

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# 1.627 go.etcd.io/etcd/client/v2 v2.305.4

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# 1.628 x-tools v0.1.5

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# 1.629 x-crypto v0.0.0-20220411220226-7b82a4e95df4

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\* /opt/cola/permits/1501142303\_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/util/ArrayUtils.java

\* /opt/cola/permits/1501142303\_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/serializer/SerializerException.java

\* /opt/cola/permits/1501142303\_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java

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/opt/cola/permits/1501142303\_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java

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\* /opt/cola/permits/1501142303\_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java

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\* /opt/cola/permits/1501142303\_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/events/NodeEvent.java

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\* /opt/cola/permits/1501142303\_1670441265.5464437/0/snakeyaml-1-33-sources-4-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java

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\* /opt/cola/permits/1501142303\_1670441265.5464437/0/snakeyaml-1-33-sources-4-  
jar/org/yaml/snakeyaml/events/CollectionEndEvent.java  
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# 1.643 python-certifi 2022.12.07

## 1.643.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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# 1.644 python-certifi 2022.12.7

## 1.644.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v

\$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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# 1.645 aws-aws-sdk-go-v2 1.12.20

## 1.645.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.
```

```
package licensemanager
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
```

```
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
 params = &ListReceivedLicensesInput{ }
 }
}
```

```
 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
 return nil, err
 }
}
```

```
 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {
```

```

// Filters to scope the results. The following filters are supported:
//
//
// *
// ProductSKU
//
// * Status
//
// * Fingerprint
//
// * IssuerName
//
// * Beneficiary
Filters []types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

// Received license details.
Licenses []types.GrantedLicense

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{ }, middleware.After)

```

```

if err != nil {
 return
err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err !=
nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
}

```

```

if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListReceivedLicenses",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
 params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

```

```

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you
 // provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see RFC 7518 Digital Signature with
 // RSASSA-PSS (https://tools.ietf.org/html/rfc7518#section-3.5).
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

```

```

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string
}

```

```

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
}

```

```

if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err
= stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutBorrowLicense",
}
}

```

```

}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
 params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary
 *string

 noSmithyDocumentSerde
}

type CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.

```



ResultMetadata middleware.Metadata

```
noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack,
options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil
{
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckInLicense",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
 name: License Scan
 runs-on: ubuntu-latest
 strategy:
 matrix:
 python-version: [3.9]

 steps:
 - name: Checkout target
 uses: actions/checkout@v2
 with:

```

```

 path: sdkbase
 ref: ${{ github.base_ref }}
- name: Checkout this ref
 uses: actions/checkout@v2
 with:
 path: new-ref
 fetch-depth: 0
- name: Get Diff
 run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
- name: Get Target Files
 run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
- name: Checkout scancode
 uses: actions/checkout@v2
 with:
 repository: nexB/scancode-toolkit
 path: scancode-toolkit
 fetch-depth: 1
- name: Set up Python ${{ matrix.python-version }}
 uses: actions/setup-python@v2
 with:
 python-version: ${{ matrix.python-version }}
ScanCode
- name: Self-configure scancode
 working-directory: ./scancode-toolkit
 run: ./scancode --help
- name: Run Scan code on target
 run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
- name: Run Scan code on pr ref
 run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
compare
- name: License test
 run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

```

package licensemanager

```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

```

```

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
 params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure
 the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional configuration
 // for workloads running with continuous connectivity. Choose a borrow
 // configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement

 // Home Region for the license.
 //
 // This member is required.

```

```

HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

//
// Information about the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License status.
Status types.LicenseStatus

// License version.
Version *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

```

```
noSmithyDocumentSerde
```

```
}
```

```
func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack);
 err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
 }
}
```

```

}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return
err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CreateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/grafana/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
if params == nil {
 params = &DisassociateLicenseInput{}
}
}

```

```

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This
 member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{ }, middleware.After)

```



```

if err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {

```

```

 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "DisassociateLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license. If the account that created the license is the
// same that is performing the check out, you must specify the account as the
// beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
 params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
 return nil, err
 }
}

```

```
out := result.(*CheckoutLicenseOutput)
out.ResultMetadata = metadata
return out, nil
}
```

```
type
```

```
CheckoutLicenseInput struct {
```

```
// Checkout type.
```

```
//
```

```
// This member is required.
```

```
CheckoutType types.CheckoutType
```

```
// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
```

```
//
```

```
// This member is required.
```

```
ClientToken *string
```

```
// License entitlements.
```

```
//
```

```
// This member is required.
```

```
Entitlements []types.EntitlementData
```

```
// Key fingerprint identifying the license.
```

```
//
```

```
// This member is required.
```

```
KeyFingerprint *string
```

```
// Product SKU.
```

```
//
```

```
// This member is required.
```

```
ProductSKU *string
```

```
// License beneficiary.
```

```
Beneficiary *string
```

```
// Node ID.
```

```
NodeId *string
```

```
noSmithyDocumentSerde
```

```
}
```

```
type CheckoutLicenseOutput struct {
```

```
// Checkout type.
```

```
CheckoutType types.CheckoutType
```

```

// Allowed license entitlements.
EntitlementsAllowed []types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name
// (ARN) of the checkout license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return
 }
}

```

```

err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack);
err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{

```

```

return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "CheckoutLicense",
}
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
 params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version

```

```

*string

noSmithyDocumentSerde
}

type GetLicenseOutput struct {

// License details.
License *types.License

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if
err = addRetryMiddlewares(stack, options); err != nil {
return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {

```

```

return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
return err
}
if err = addClientUserAgent(stack); err != nil {
return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
return err
}
if err = addRequestResponseLogging(stack,
options); err != nil {
return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
Region: region,
ServiceID: ServiceID,
SigningName: "license-manager",
OperationName: "GetLicense",
}
}

```

AWS SDK for Go

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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager



```

import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
 params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 // *
 // Beneficiary
 //
 // * ProductSKU
 //
 // * Fingerprint
 //
 //
 * Status
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

```

```

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{ }, middleware.After)
if err != nil {
return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack);
err != nil {
return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
return err
}

```

```

}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

```

```

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "ListLicenses",
 }
}

```

// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager
```

```
import (
```

```

"context"
awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
"github.com/aws/aws-sdk-go-v2/aws/signer/v4"
"github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
"github.com/aws/smithy-go/middleware"
smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
 params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the
 license.
 //
 // This member is required.
 SourceVersion *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.

```

Status types.LicenseDeletionStatus

// Metadata pertaining to the operation's result.

ResultMetadata middleware.Metadata

noSmithyDocumentSerde

}

```
func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{ }, middleware.After)
 if err != nil {
 return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
 }
 if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
 }
 if err = addResolveEndpointMiddleware(stack,
options); err != nil {
 return err
 }
 if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
 }
 if err = addRetryMiddlewares(stack, options); err != nil {
 return err
 }
 if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
 }
 if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
 }
 if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
 }
 if err = addClientUserAgent(stack); err != nil {
 return err
 }
}
```

```

if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack);
err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "license-manager",
 OperationName: "DeleteLicense",
 }
}

```

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// Code generated by smithy-go-codegen DO NOT EDIT.

```
package grafana
```

```
import (
 "context"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/aws/signer/v4"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Assigns a Grafana Enterprise license to a workspace. Upgrading to Grafana
// Enterprise incurs additional fees. For more information, see Upgrade a workspace
// to Grafana Enterprise
```

```

// (https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html).
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
 params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "AssociateLicense", params, optFns,
c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
 return nil, err
 }

 out
 := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {

```

```

err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{ }, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{ }, middleware.After)
if
err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddClientRequestIDMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddComputeContentLengthMiddleware(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = v4.AddComputePayloadSHA256Middleware(stack); err != nil {
 return err
}
if err = addRetryMiddlewares(stack, options); err != nil {
 return err
}
if err = addHTTPSignerV4Middleware(stack, options); err != nil {
 return err
}
if err = awsmiddleware.AddRawResponseToMetadata(stack); err != nil {
 return err
}
if err = awsmiddleware.AddRecordResponseTiming(stack); err != nil {
 return err
}
if err = addClientUserAgent(stack); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}

```

```

}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region: region,
 ServiceID: ServiceID,
 SigningName: "grafana",
 OperationName: "AssociateLicense",
}
}

```

# 1.646 slf4j 1.7.29

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Found in path(s):

\* /opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/META-INF/maven/org.slf4j/jcl-over-slf4j/pom.xml

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\* /opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/org/apache/commons/logging/impl/NoOpLog.java  
\* /opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/org/apache/commons/logging/LogConfigurationException.java  
\* /opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/org/apache/commons/logging/impl/SLF4JLogFactory.java  
\*

/opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/org/apache/commons/logging/LogFactory.java  
\* /opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/org/apache/commons/logging/Log.java  
\* /opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/org/apache/commons/logging/impl/SLF4JLog.java  
\* /opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/org/apache/commons/logging/impl/SimpleLog.java  
\* /opt/cola/permits/1512563317\_1671429904.0413973/0/jcl-over-slf4j-1-7-29-sources-jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java  
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## 1.652 future 0.18.3

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## 1.657 go-toml 2.0.5

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- Jackson-core - <https://github.com/FasterXML/jackson-core>
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# 1.851 cloudhsm 2.17.278

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# 1.852 timestreamquery 2.17.278

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- com.fasterxml.jackson.core:jackson-annotations:2.7.9
- com.fasterxml.jackson.core:jackson-core:2.7.9
- com.fasterxml.jackson.core:jackson-databind:2.7.9
- com.fasterxml.jackson.dataformat:jackson-dataformat-csv:2.7.9
- com.fasterxml.jackson.dataformat:jackson-dataformat-yaml:2.7.9
- 
- org.yaml:snakeyaml:1.15

# Jackson JSON processor

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

It is currently developed by a community of developers, as well as supported  
commercially by FasterXML.com.

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A list of contributors may be found from CREDITS file, which is included  
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# 1.1000 flink-optimizer 1.8.0

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jar/com/amazonaws/services/sqs/internal/RequestCopyUtils.java
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jar/org/apache/beam/runners/flink/FlinkStreamingTransformTranslators.java
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/functions/ReferenceCountingFlinkExecutableStageContextFactory.java  
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/functions/SideInputInitializer.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/metrics/ReaderInvocationUtil.java  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/wrappers/streaming/DoFnOperator.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/functions/FlinkNoOpStepContext.java  
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/wrappers/ImpulseInputFormat.java  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/functions/ImpulseSourceFunction.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/FlinkTransformOverrides.java  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/wrappers/streaming/WindowDoFnOperator.java  
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/wrappers/streaming/io/UnboundedSourceWrapper.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/functions/FlinkDoFnFunction.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/functions/FlinkMultiOutputPruningFunction.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/FlinkBatchTransformTranslators.java  
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jar/org/apache/beam/runners/flink/translation/utils/NoopLock.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
jar/org/apache/beam/runners/flink/FlinkPortablePipelineTranslator.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
jar/org/apache/beam/runners/flink/translation/wrappers/streaming/NonKeyedPushedBackElementsHandler.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
jar/org/apache/beam/runners/flink/translation/wrappers/streaming/KvToByteBufferKeySelector.java  
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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jar/org/apache/beam/runners/flink/PipelineTranslationModeOptimizer.java  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
jar/org/apache/beam/runners/flink/translation/wrappers/streaming/stableinput/BufferingDoFnRunner.java  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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jar/org/apache/beam/runners/flink/translation/utils/FlinkClassloading.java  
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
jar/org/apache/beam/runners/flink/translation/wrappers/streaming/state/FlinkBroadcastStateInternals.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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jar/org/apache/beam/runners/flink/translation/wrappers/streaming/stableinput/BufferedElements.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
jar/org/apache/beam/runners/flink/translation/wrappers/streaming/io/TestStreamSource.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
jar/org/apache/beam/runners/flink/translation/wrappers/SourceInputFormat.java  
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-  
jar/org/apache/beam/runners/flink/translation/functions/FlinkPartialReduceFunction.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-

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jar/org/apache/beam/runners/flink/FlinkStreamingTranslationContext.java
* /opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
jar/org/apache/beam/runners/flink/translation/wrappers/streaming/PushedBackElementsHandler.java
* /opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
jar/org/apache/beam/runners/flink/FlinkBatchPipelineTranslator.java
* /opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
jar/org/apache/beam/runners/flink/translation/wrappers/package-info.java
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/opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
jar/org/apache/beam/runners/flink/translation/wrappers/streaming/SplittableDoFnOperator.java
* /opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
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* /opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
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* /opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
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/opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
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* /opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
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* /opt/cola/permits/1549383850_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-
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jar/org/apache/beam/runners/flink/FlinkRunnerRegistrar.java
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/FlinkExecutionEnvironments.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/translation/wrappers/SourceInputSplit.java  
\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/FlinkRunner.java  
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\* /opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/FlinkJobInvoker.java  
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/opt/cola/permits/1549383850\_1675198824.805075/0/beam-runners-flink-1-8-2-15-0-sources-1-jar/org/apache/beam/runners/flink/FlinkRunnerResult.java  
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# 1.1004 junit 4.13-beta-1

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JUnit

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```

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```

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\* /opt/cola/permits/1549383613\_1675198797.87392/0/aws-java-sdk-kms-1-11-519-sources-1-jar/com/amazonaws/services/kms/model/RevokeGrantResult.java

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\* /opt/cola/permits/1549383613\_1675198797.87392/0/aws-java-sdk-kms-1-11-519-sources-1-jar/com/amazonaws/services/kms/model/DescribeCustomKeyStoresRequest.java

\* /opt/cola/permits/1549383613\_1675198797.87392/0/aws-java-sdk-kms-1-11-519-sources-1-jar/com/amazonaws/services/kms/model/GetParametersForImportRequest.java

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\* /opt/cola/permits/1549383613\_1675198797.87392/0/aws-java-sdk-kms-1-11-519-sources-1-jar/com/amazonaws/services/kms/model/Tag.java

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jar/com/amazonaws/services/kms/model/CloudHsmClusterNotRelatedException.java

```

# 1.1010 beam-sdks-java-extensions-json-jackson 2.15.0

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- \* /opt/cola/permits/1549383834\_1675198785.3708982/0/beam-sdks-java-extensions-json-jackson-2-15-0-sources-1-jar/org/apache/beam/sdk/extensions/jackson/package-info.java
- \*
- \*/opt/cola/permits/1549383834\_1675198785.3708982/0/beam-sdks-java-extensions-json-jackson-2-15-0-sources-1-jar/org/apache/beam/sdk/extensions/jackson/ParseJsons.java
- \* /opt/cola/permits/1549383834\_1675198785.3708982/0/beam-sdks-java-extensions-json-jackson-2-15-0-sources-1-jar/org/apache/beam/sdk/extensions/jackson/AsJsons.java

# 1.1011 flink-java 1.8.1

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# 1.1012 aws-java-sdk-sns 1.11.519

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jar/com/amazonaws/services/sns/model/transform/PlatformApplicationDisabledExceptionUnmarshaller.java
*
/opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/GetPlatformApplicationAttributesRequestMarshaller.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/NotFoundExceptionUnmarshaller.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/SubscriptionStaxUnmarshaller.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/KMSAccessDeniedException.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/KMSThrottlingExceptionUnmarshaller.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/KMSDisabledException.java
*
/opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/MessageAttributeValueStaxUnmarshaller.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/ListEndpointsByPlatformApplicationResultStaxUnmarshaller.java
a
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/ListPhoneNumbersOptedOutResult.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/GetSubscriptionAttributesRequestMarshaller.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/CheckIfPhoneNumberIsOptedOutRequestMarshaller.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/transform/InvalidParameterExceptionUnmarshaller.java
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/opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/DeletePlatformApplicationRequest.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/model/DeleteTopicRequest.java

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\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/ThrottledExceptionUnmarshaller.java  
 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/SetSMSAttributesResult.java  
 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/AmazonSNSAsync.java  
 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/GetTopicAttributesResultStaxUnmarshaller.java  
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 /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/InternalServerErrorExceptionUnmarshaller.java  
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 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/AmazonSNSClientBuilder.java  
 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/GetEndpointAttributesRequest.java  
 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/GetTopicAttributesResult.java  
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 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/SetPlatformApplicationAttributesResult.java  
 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/SetSMSAttributesRequestMarshaller.java  
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 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/RemovePermissionRequestMarshaller.java  
 \*  
 /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/SetTopicAttributesRequest.java  
 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/SetSubscriptionAttributesResultStaxUnmarshaller.java  
 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/InvalidParameterException.java  
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 \* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/SetTopicAttributesResultStaxUnmarshaller.java  
 \*  
 /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/CheckIfPhoneNumberIsOptedOutResult.java

\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/AmazonSNSAsyncClient.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/KMSNotFoundException.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/GetPlatformApplicationAttributesResult.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/AbstractAmazonSNSAsync.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/ListTopicsRequestMarshaller.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/OptInPhoneNumberResult.java  
\*

/opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/PlatformApplication.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/AuthorizationErrorException.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/CreatePlatformEndpointRequest.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/TopicLimitExceededException.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/model/transform/SetEndpointAttributesRequestMarshaller.java  
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\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/util/SignatureChecker.java  
\* /opt/cola/permits/1549383644\_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-jar/com/amazonaws/services/sns/util/package-info.java

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* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/HttpException.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SnsMessage.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SnsNotification.java
*
/opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SnsMessageUnmarshaller.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SigningCertUrlVerifier.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SnsSubscriptionConfirmation.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SnsUnsubscribeConfirmation.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/DefaultSnsMessageHandler.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/Utils.java
*
/opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SnsUnknownMessage.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SnsMessageManager.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SnsMessageHandler.java
* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/services/sns/message/SignatureVerifier.java
```



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* /opt/cola/permits/1549383644_1675198829.3782828/0/aws-java-sdk-sns-1-11-519-sources-1-
jar/com/amazonaws/auth/policy/actions/SNSActions.java
```

## 1.1013 flink-annotations 1.8.0

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\* /opt/cola/permits/1549383819\_1675198791.0563052/0/beam-sdks-java-build-tools-2-15-0-sources-1-jar/beam/suppressions.xml

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\* /opt/cola/permits/1549383819\_1675198791.0563052/0/beam-sdks-java-build-tools-2-15-0-sources-1-jar/org/apache/beam/buildtools/package-info.java

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\* /opt/cola/permits/1549383819\_1675198791.0563052/0/beam-sdks-java-build-tools-2-15-0-sources-1-jar/beam/checkstyle.xml

\*

/opt/cola/permits/1549383819\_1675198791.0563052/0/beam-sdks-java-build-tools-2-15-0-sources-1-jar/beam/spotbugs-filter.xml

\* /opt/cola/permits/1549383819\_1675198791.0563052/0/beam-sdks-java-build-tools-2-15-0-sources-1-jar/beam/beam-codestyle.xml

# 1.1015 flink-metrics-core 1.8.0

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## 1.1016 beam-sdks-java-io-parquet 2.15.0

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\* /opt/cola/permits/1549383842\_1675198814.7653706/0/beam-sdks-java-io-parquet-2-15-0-sources-1-jar/org/apache/beam/sdk/io/parquet/package-info.java

\*

/opt/cola/permits/1549383842\_1675198814.7653706/0/beam-sdks-java-io-parquet-2-15-0-sources-1-jar/org/apache/beam/sdk/io/parquet/ParquetIO.java

## 1.1017 parquet-avro 1.10.0

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```
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/KMSEncryptionMaterials.java
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/DownloadTaskImpl.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/GetBucketVersioningConfigurationRequest.java  
\*  
/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/ListNextBatchOfObjectsRequest.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/GetBucketLoggingConfigurationRequest.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/FileLocks.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/GetBucketAccelerateConfigurationRequest.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/GetBucketLifecycleConfigurationRequest.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/ListNextBatchOfVersionsRequest.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/AmazonS3EncryptionClientParamsWrapper.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/KeyFilter.java  
\*

/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/AmazonS3EncryptionClientBuilder.java

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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SetObjectLegalHoldResult.java

\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-

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jar/com/amazonaws/services/s3/internal/crypto/RenewableCipherLiteInputStream.java

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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/AbstractPutObjectRequest.java  
\*  
/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/ExtraMaterialsDescription.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/NotificationConfiguration.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-

jar/com/amazonaws/services/s3/model/S3ObjectId.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/UploadObjectObserver.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/KeyWrapException.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/S3ObjectIdBuilder.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/auth/DecodedStreamBuffer.java  
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/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/CloudFunctionConfiguration.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/transfer/internal/S3SyncProgressListener.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/PutInstructionFileRequest.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/internal/S3Direct.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/AmazonS3URI.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/EncryptedPutObjectRequest.java  
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/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/SSEAwsKeyManagementParamsProvider.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/internal/AmazonS3ExceptionBuilder.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/internal/S3DirectSpi.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/model/InstructionFileId.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/S3RequesterChargedResult.java

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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/waiters/HeadObjectFunction.java

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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/GetBucketEncryptionResult.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SourceSelectionCriteria.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/ServerSideEncryptionByDefault.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/inventory/InventoryEncryption.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SetBucketEncryptionResult.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/EncryptionConfiguration.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketEncryptionRequest.java  
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/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/inventory/ServerSideEncryptionS3.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SetBucketEncryptionRequest.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/DeleteMarkerReplication.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/ServerSideEncryptionRule.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketEncryptionResult.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SseKmsEncryptedObjectsStatus.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/ServerSideEncryptionConfiguration.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/GetBucketEncryptionRequest.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/MultiFactorAuthentication.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/ObjectListing.java  
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/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/MD5DigestCalculatingInputStream.java

\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SetBucketVersioningConfigurationRequest.java

\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/S3ObjectSummary.java

\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SetBucketCrossOriginConfigurationRequest.java

\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/BucketVersioningConfiguration.java

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/opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketTaggingConfigurationRequest.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
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* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketLoggingConfigurationRequest.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/SetBucketLifecycleConfigurationRequest.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/package-info.java
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* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
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jar/com/amazonaws/services/s3/model/DeleteBucketPolicyRequest.java
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jar/com/amazonaws/services/s3/AmazonS3ClientConfigurationFactory.java
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/DeleteBucketLifecycleConfigurationRequest.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/GetBucketLocationRequest.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/RoutingRuleCondition.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SetBucketPolicyRequest.java  
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/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/AmazonS3ClientBuilder.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SetBucketWebsiteConfigurationRequest.java



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* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/Tier.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/GetBucketPolicyRequest.java
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```
// The Amazon S3 DevPay token header is a special exception and can be safely moved
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```

```
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/AmazonS3Client.java
```

```
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```

```
/*
```

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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/AbstractRepeatableCipherInputStream.java  
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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/DeleteObjectTaggingResult.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/S3RequesterChargedHeaderHandler.java  
\*  
/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/DeleteObjectTaggingRequest.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-

```
jar/com/amazonaws/services/s3/model/S3AccelerateUnsupported.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/GetObjectTaggingRequest.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/SetObjectTaggingRequest.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/BucketAccelerateStatus.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/SetObjectTaggingResult.java
*
/opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/internal/S3VersionResult.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/internal/DeleteObjectTaggingHeaderHandler.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/Tag.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/GetObjectAclRequest.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/ObjectTagging.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java
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Found in path(s):

```
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/MultiObjectDeleteException.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/internal/ServerSideEncryptionHeaderHandler.java
* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/model/DeleteObjectsResult.java
*
```

/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/CORSRule.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/BucketLifecycleConfiguration.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/SetBucketNotificationConfigurationRequest.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/CopyPartResult.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/CopyMonitor.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/ServerSideEncryptionResult.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/ObjectExpirationResult.java  
\*  
/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/UploadMonitor.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/TransferMonitor.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/BucketCrossOriginConfiguration.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/DeleteObjectsResponse.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/ResponseHeaderHandlerChain.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/CopyPartRequest.java  
\*  
/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/HeaderHandler.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/GenericBucketRequest.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/ResponseHeaderOverrides.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/ObjectRestoreResult.java

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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransferMonitor.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileUploadImpl.java  
\*  
/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/S3ObjectInputStream.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/AbstractTransfer.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/MultipleFileDownload.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/MultipleFileUpload.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/DownloadMonitor.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileDownloadImpl.java  
\*  
/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/MultipleFileTransfer.java

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/\*\*

\* Interface for providing encryption materials.

\* Implementations are free to use any strategy for providing encryption

\* materials, such as simply providing static material that doesn't change,

- \* or more complicated implementations, such as integrating with existing
- \* key management systems.
- \*/

Found in path(s):

\*/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/EncryptionMaterialsProvider.java  
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/\*\*

\* Synchronous client for accessing Amazon S3.

\*

\* <h1>Appendix: Amazon S3 client-side encryption meta information</h1>

\*

\* <h2>Introduction</h2>

\* <p>

\* This appendix summarizes the current crypto related meta information

\* associated with an S3 object encrypted using SDK client-side encryption. In

\* SDK's terminology, these meta

information are classified as "user metadata".

\* In general, the meta information is just a map of key/value pairs. Physically

\* they are persisted either as metadata of the encrypted S3 object, or as a

\* separate S3 object called an "instruction file" (which is just a JSON file in

\* plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,

\* such as <code>"AES/CBC/PKCS5Padding"</code>, please refer to Oracle's <a

\* href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html"

\* >Java&trade; Cryptography Architecture Standard Algorithm Name Documentation</a>

\* for more details.

\*

\* <h2>S3 metadata vs instruction file</h2>

\* <p>

\* Note when a key/value pair is stored as "user metadata" as part of the S3

\* metadata, the SDK always adds an additional prefix of <b>x-amz-meta-</b> to

\* the key name. In contrast, the SDK doesn't add any prefix when the key names

\* are stored in an instruction file. (The reason has to do with how the http headers are handled.)

\* For example, `<b>x-amz-key</b>` would get stored as `<b>x-amz-meta-x-amz-key</b>` in S3 metadata. In contrast, `<b>x-amz-key</b>` would simply be stored as is (ie without the prefix) in an instruction file.

\* All the keys described below are considered "user metadata" by the SDK.

\* 

## S3 v1 crypto meta information (supported by all SDK's)

\* 

For non-KMS client side encryption, this v1 crypto meta information is used to support the "Encryption Only" crypto mode (which involves the use of `AES/CBC/PKCS5Padding` for content encryption, and `AES/ECB` for encrypting the one-time randomly generated data key). For KMS client-side encryption, the v2 crypto meta information is used.

key	description
<code>&lt;b&gt;x-amz-key&lt;/b&gt;</code>	Content encrypting key (cek) in encrypted form, base64 encoded. The cek is randomly generated per S3 object, and is always an AES 256-bit key. The corresponding cipher is always "AES/CBC/PKCS5Padding".
<code>&lt;b&gt;x-amz-iv&lt;/b&gt;</code>	Randomly generated IV (per S3 object), base64 encoded
<code>&lt;b&gt;x-amz-matdesc &lt;/b&gt;</code>	Customer provided material description in JSON (UTF8) format. Used to identify the client-side master key (ie used to encrypt/wrap the generated content encrypting key).
<code>&lt;b&gt;x-amz-unencrypted-content-length&lt;/b&gt;</code>	Unencrypted content length (optional but should be specified whenever possible).

\* 

## S3 v2 crypto meta information (currently supported by the Java SDK)

```

* <p>
* This v2 crypto meta information is used to support both authenticated
* encryption (which involves the use of <code>AES/GCM/NoPadding</code> for
* content encryption, and key wrapping for the one-time randomly
generated data
* key), and KMS client-side encryption (which can either be encryption-only or
* authenticated encryption.)
* <p>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td width="200">x-amz-key-v2</td>
* <td>CEK in key wrapped form. This is necessary so that the S3 encryption
* client that doesn't recognize the v2 format will not mistakenly decrypt S3
* object encrypted in v2 format.</td>
* </tr>
* <tr>
* <td>x-amz-iv</td>
* <td>Randomly generated IV (per S3 object), base64 encoded. (Same as v1.)</td>
* </tr>
* <tr>
* <td>x-amz-matdesc</td>
* <td>Customer provided material description in JSON format. (Same as v1). Used
* to identify the client-side master key.
*
* For KMS client side encryption, the KMS Customer Master Key ID is stored
* as part of the material description, x-amz-matdesc, under the key-name
* <code>"kms_cmk_id"</code>.
*
* </td>
* </tr>
* <tr>
* <td>x-amz-unencrypted-content-length</td>
* <td>Unencrypted content length. (optional but should be specified whenever
* possible. Same as v1.)</td>
* </tr>
* <tr>
* <td>x-amz-wrap-alg</td>
* <td>Key wrapping algorithm used.
*
* Supported values:
* <code>"AESWrap", "RSA/ECB/OAEPWithSHA-256AndMGF1Padding", "kms"</code>
* No standard key wrapping is used if this meta information is absent
* Always set to "kms" if KMS is used for client-side encryption
*

```



```

* </td>
* </tr>
* <tr>
* <td>x-amz-cek-alg</td>
* <td>Content encryption algorithm used.
*
* Supported values:
* <code>"AES/GCM/NoPadding", "AES/CBC/PKCS5Padding"</code>
* Default to <code>"AES/CBC/PKCS5Padding"</code> if this key is absent.
*
* </td>
* </tr>
* <tr>
* <td>x-amz-tag-len</td>
* <td>Tag length (in bits) when AEAD is in use.
*
* Only applicable if AEAD is in use. This meta information
is absent
* otherwise, or if KMS is in use.
* Supported value: <code>"128"</code>
*
* </td>
* </tr>
* </table>
* <p>
* <h3>KMS Integration for client-side encryption</h3>
*
* All client-side KMS protected S3 objects are stored in v2 crypto meta information
* format. However, the key wrapping algorithm, x-amz-wrap-alg is always
* set to "kms".
* The KMS Customer Master Key ID is currently stored as part of the
* material description, x-amz-matdesc, under the key-name
* "kms_cmk_id".
*
* <p>
* <h4>Sample S3 crypto meta information for KMS client-side encryption</h4>
* <p>
* <h5>CryptoMode: Encryption Only</h5>
*
* <pre>
* x-amz-meta-x-amz-key-v2:
*
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBaWB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPifIAAAB+MHwGCSqGSIb3DQEHBqBvMG0CAQAwAYJKoZlIhvcNAQcBMB4GCWCGSAl
AwQBLjARBAyD0rzN3KHViWixDVcCARCAOwhZ6xA8rob3Z0mNx3uKFieHKVyIC/PKlchALvG1oVLnf86m
cZJNpTXtwMkKkDocVj3Z1zGjZTufFsOH
* x-amz-iv: xqOHh+M6y0UogwG5SHJM3Q==
* x-amz-unencrypted-content-length: 32768

```

```

* x-amz-cek-alg: AES/CBC/PKCS5Padding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmek_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* </pre>
*
* <h5>CryptoMode: Authenticated Encryption</h5>
*
* <pre>
* x-amz-key-v2:
CiAJ2GqwpJRnt4izujwoalC2YdNRNSMEslG5rw3pEI+J8hKnAQEBAwB4CdhqsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPifIAAAB+MHwGCSqGSIB3DQEHBqBvMG0CAQAWaAYJKoZlIhvcNAQcBMB4GCWCGSAFl
AwQBLjARBAytFVYw4I6QmwcPK1ECARCAO1VzoM6KxA9DHyNMm/BEbbjle2vLA7IY7f9OkUoSqrxdgKxp
NID9QaL/7928m1Djtd0bJpHefjm89C
* x-amz-iv: VZBksyij6DhrUMye
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/GCM/NoPadding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmek_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* x-amz-tag-len: 128
* </pre>
*
* <h2>S3 metadata of an instruction file</h2>
* <p>
* The following key is always included as part of the S3 metadata of the
* instruction
* file (which is just an S3 object). Since the SDK treats this key
* as "user metadata", the key name is always prefixed with x-amz-meta-
* when physically stored.
* <p>
* <table border=1>
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td width="200">x-amz-crypto-instr-file</td>
* <td>the presence of this key is used to indicate this S3 object is an
* instruction file (of an associated client-side encrypted S3 object).</td>
* </tr>
* </table>
*/

```

Found in path(s):

```

* /opt/cola/permits/1549383866_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-
jar/com/amazonaws/services/s3/package-info.java

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jar/com/amazonaws/services/s3/internal/crypto/KMSSecuredCEK.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-  
jar/com/amazonaws/services/s3/internal/crypto/SecuredCEK.java  
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jar/com/amazonaws/services/s3/transfer/PauseResult.java  
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- \* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/internal/CompleteMultipartUploadRetryablePredicate.java
- \* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/transform/GetPublicAccessBlockStaxUnmarshaller.java
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- \* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/LambdaConfiguration.java
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\*/  
/\*\*  
\* Gets the optional `versionIdMarker` parameter indicating where in the  
\* sorted list of all versions in the specified bucket to begin returning  
\* results. Results are always ordered first lexicographically (i.e.  
\* alphabetically) and then from most recent version to least recent  
\* version.  
\* `<p>`

\* A key marker must be specified when specifying a `versionIdMarker`.

\* Results begin immediately after the version with the specified key and version ID.

\* `</p>`

\*

\* `@return` The optional `versionIdMarker` parameter indicating where in the sorted list of all versions in the specified bucket to begin returning results.

\*

\* `@see ListVersionsRequest#setVersionIdMarker(String)`

\* `@see ListVersionsRequest#withVersionIdMarker(String)`

\*/

Found in path(s):

\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/ListVersionsRequest.java

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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/internal/DownloadS3ObjectCallable.java

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\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/PartSummary.java

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/opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/transfer/Copy.java  
\* /opt/cola/permits/1549383866\_1675198818.5732894/0/aws-java-sdk-s3-1-11-519-sources-1-jar/com/amazonaws/services/s3/model/HeadBucketRequest.java  
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```

# 1.1022 beam-runners-direct-java 2.15.0

## 1.1022.1 Available under license :

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```

Found in path(s):

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\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/ImmutableListBundleFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/BundleProcessor.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/ParDoEvaluator.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/BundleFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/Clock.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/TransformExecutorFactory.java  
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/opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/WriteWithShardingFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/ExecutorServiceFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/CommittedBundle.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-  
jar/org/apache/beam/runners/direct/TransformResult.java

\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/CopyOnAccessInMemoryStateInternals.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DirectRunner.java  
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/opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/AbstractModelEnforcement.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/StepAndKey.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/ViewOverrideFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DirectTimerInternals.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/ParDoMultiOverrideFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DirectGraphVisitor.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DirectOptions.java  
\*  
/opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/SideInputContainer.java  
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\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/StatefulParDoEvaluatorFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DirectRegistrar.java  
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\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DoFnLifecycleManager.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DisplayDataValidator.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DirectMetrics.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DirectGroupByKeyOverrideFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/WatermarkCallbackExecutor.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/CompletionCallback.java  
\*



/opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/ImpulseEvaluatorFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/WatermarkManager.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/SourceShard.java  
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\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/package-info.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/SplittableProcessElementsEvaluatorFactory.java  
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/opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/RootProviderRegistry.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/UnboundedReadDeduplicator.java  
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\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/UnboundedReadEvaluatorFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/WindowEvaluatorFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/DirectGroupByKey.java  
\*  
/opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/ModelEnforcement.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/TransformExecutorService.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/GroupByKeyOnlyEvaluatorFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/QuiescenceDriver.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/UncommittedBundle.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/TransformEvaluator.java  
\*  
/opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/BoundedReadEvaluatorFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/GroupAlsoByWindowEvaluatorFactory.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-jar/org/apache/beam/runners/direct/TransformEvaluatorRegistry.java  
\* /opt/cola/permits/1549383767\_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-

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jar/org/apache/beam/runners/direct/DoFnLifecycleManagerRemovingTransformEvaluator.java
* /opt/cola/permits/1549383767_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-
jar/org/apache/beam/runners/direct/ParDoEvaluatorFactory.java
* /opt/cola/permits/1549383767_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-
jar/org/apache/beam/runners/direct/KeyedPValueTrackingVisitor.java
*
/opt/cola/permits/1549383767_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-
jar/org/apache/beam/runners/direct/DirectTransformExecutor.java
* /opt/cola/permits/1549383767_1675198823.428118/0/beam-runners-direct-java-2-15-0-sources-1-
jar/org/apache/beam/runners/direct/MultiStepCombine.java
```

# 1.1023 beam-sdks-java-io-amazon-web-services 2.15.0

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jar/org/apache/beam/sdk/io/aws/dynamodb/AwsClientsProvider.java
*
/opt/cola/permits/1549383790_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/aws/options/AwsPipelineOptionsRegistrar.java
* /opt/cola/permits/1549383790_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/aws/sns/SnsIO.java
* /opt/cola/permits/1549383790_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-
jar/org/apache/beam/sdk/io/aws/sqs/SqsIO.java
* /opt/cola/permits/1549383790_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-
```

1-jar/org/apache/beam/sdk/io/aws/s3/DefaultS3ClientBuilderFactory.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sqs/SqsUnboundedReader.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/s3/S3FileSystem.java  
\*  
/opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/dynamodb/BasicDynamoDBProvider.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/options/S3ClientBuilderFactory.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/s3/S3ReadableSeekableByteChannel.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sns/SnsCoderProviderRegistrar.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sqs/SqsConfiguration.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/options/AwsOptions.java  
\*  
/opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sqs/package-info.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/dynamodb/DynamoDBIO.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/s3/package-info.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/dynamodb/AttributeValueCoder.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/dynamodb/package-info.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sns/PublishResultCoder.java  
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/opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sqs/SqsUnboundedSource.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/options/package-info.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sns/BasicSnsProvider.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sns/AwsClientsProvider.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/options/AwsModule.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/sqs/SqsCheckpointMark.java  
\*  
/opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-1-jar/org/apache/beam/sdk/io/aws/s3/S3ResourceId.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-

1-jar/org/apache/beam/sdk/io/aws/dynamodb/AttributeValueCoderProviderRegistrar.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-  
1-jar/org/apache/beam/sdk/io/aws/sns/package-info.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-  
1-jar/org/apache/beam/sdk/io/aws/s3/S3FileSystemRegistrar.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-  
1-jar/org/apache/beam/sdk/io/aws/s3/S3WritableByteChannel.java  
\* /opt/cola/permits/1549383790\_1675198820.2569993/0/beam-sdks-java-io-amazon-web-services-2-15-0-sources-  
1-jar/org/apache/beam/sdk/io/aws/options/S3Options.java

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## 1.1029 aws-java-sdk-dynamodb 1.11.519

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* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/conn/ssl/SdkTLSSocketFactory.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
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jar/com/amazonaws/internal/SdkSSLContext.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/annotation/package-info.java
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/regions/Regions.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/regions/ServiceAbbreviations.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/protocol/json/SdkJsonGenerator.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/transform/Pathmarshallers.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/profile/path/cred/CredentialsLegacyConfigLocationProvider.java

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/opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/client/builder/AwsSyncClientBuilder.java

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 \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/TimingInfo.java  
 \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/auth/presign/PresignerParams.java  
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 \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/client/AwsAsyncClientParams.java  
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jar/com/amazonaws/protocol/json/JsonContentTypeResolverImpl.java
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jar/com/amazonaws/profile/path/config/SharedConfigDefaultLocationProvider.java
*

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/response/AwsResponseHandlerAdapter.java  
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jar/com/amazonaws/endpointdiscovery/DaemonThreadFactory.java  
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-  
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-  
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-  
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-  
jar/com/amazonaws/handlers/RequestHandler2Adaptor.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/metrics/ThroughputMetricType.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/auth/policy/Action.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/handlers/RequestHandler.java  
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/ProxyAuthenticationMethod.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/monitoring/ProfileCsmConfigurationProvider.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/endpointdiscovery/EnvironmentVariableEndpointDiscoveryProvider.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/ServiceEndpointBuilder.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/waiters/WaiterTimedOutException.java

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jar/com/amazonaws/annotation/SdkInternalApi.java
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jar/com/amazonaws/annotation/Immutable.java
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jar/com/amazonaws/retry/internal/CredentialsEndpointRetryParameters.java

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jar/com/amazonaws/internal/EC2CredentialsUtils.java

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jar/com/amazonaws/internal/ReleasableInputStream.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-

jar/com/amazonaws/internal/ResettableInputStream.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/HttpMethodName.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/auth/AWSCredentials.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/protocol/json/SdkJsonProtocolFactory.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/JsonResponseHandler.java

\*  
/opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredPlainJsonFactory.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/protocol/json/SdkCborGenerator.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/protocol/json/SdkStructuredCborFactory.java

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```
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/partitions/model/Partitions.java
```

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```

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```
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/Classes.java
```

```
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/BinaryUtils.java
```

```
*
```

/opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/DateUtils.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/adapters/types/TypeAdapter.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/NullResponseMetadataCache.java

\*

/opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/MetadataCache.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/adapters/types/StringToByteBufferAdapter.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/auth/DefaultSignerProvider.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/adapters/types/StringToInputStreamAdapter.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/auth/NoOpSignerProvider.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/auth/SignerProviderContext.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/config/JsonIndex.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/config/SignerConfigJsonHelper.java  
\*  
/opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/config/SignerConfig.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/ImmutableMapParameter.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/config/Builder.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/CustomBackoffStrategy.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/auth/SystemPropertiesCredentialsProvider.java  
\*

```
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/InstanceProfileCredentialsProvider.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/internal/DynamoDBBackoffStrategy.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/internal/EC2MetadataClient.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/HandlerContextAware.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/AwsHostNameUtils.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/DefaultAWSCredentialsProviderChain.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/EnvironmentVariableCredentialsProvider.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/AWSCredentialsProviderChain.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/IdleConnectionReaper.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/ClasspathPropertiesFileCredentialsProvider.java
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jar/com/amazonaws/handlers/IRequestHandler2.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/apache/client/impl/ConnectionManagerAwareHttpClient.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/apache/request/impl/ApacheHttpRequestFactory.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/apache/Utils/Utils.java
```

```
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/apache/client/impl/SdkHttpClient.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/apache/client/impl/ApacheConnectionFactory.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/CanHandleNullCredentials.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/internal/DateTimeJsonSerializer.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/log/InternalLogFactory.java
*
```

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/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/CapacityManager.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/FakeIOException.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/apache/client/impl/ApacheHttpClientFactory.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/timers/package-info.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/protocol/json/SdkStructuredJsonFactory.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/IdempotentUtils.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/conn/ssl/ShouldClearSslSessionPredicate.java
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/**
* Interface for providing AWS credentials. Implementations are free to use any
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* credentials that don't change, or more complicated implementations, such as
* integrating with existing key management systems.
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```



Found in path(s):

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/auth/AWSCredentialsProvider.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/JodaTime.java

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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/ServiceClientHolderInputStream.java

\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-

```
jar/com/amazonaws/jmx/spi/JmxInfoProvider.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/json/Jackson.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/metrics/MetricAdminMBean.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/BasicSessionCredentials.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/RequestClientOptions.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/ClassLoaderHelper.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/jmx/JmxInfoProviderSupport.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/AWSSessionCredentialsProvider.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/metrics/MetricAdmin.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/AWSSessionCredentials.java
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jar/com/amazonaws/retry/ClockSkewAdjuster.java
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/SdkMetricsSocket.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/handlers/HandlerContextKey.java  
\*  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/Base16Lower.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/exception/HttpRequestTimeoutException.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/conn/ssl/MasterSecretValidators.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/SdkHttpUtils.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionTimeoutException.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTracker.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/UriResourcePathUtils.java  
\*  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/client/ConnectionFactory.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/timers/request/HttpRequestAbortTaskTrackerImpl.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/log/JulLogFactory.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/log/InternalLog.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/conn/SdkConnectionKeepAliveStrategy.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/DelegatingDnsResolver.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/timers/client/ClientExecutionAbortTask.java  
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/opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/PredefinedClientConfigurations.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/http/JsonErrorCodeParser.java  
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- \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/ResetException.java
- \*
- /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/SdkFilterOutputStream.java
- \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/Base32.java
- \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/internal/SdkDigestInputStream.java
- \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/Base32Codec.java
- \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/Base64Codec.java
- \* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/util/Codec.java

```
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/Base64.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/Base16.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/internal/MetricsInputStream.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/CodecUtils.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/internal/MetricAware.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/internal/SdkBufferedInputStream.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/regions/RegionMetadataParser.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/jmx/SdkMBeanRegistrySupport.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/RegionAwareSigner.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/ServiceAwareSigner.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/HttpClientWrappingInputStream.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/jmx/MBeans.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/util/SdkRuntime.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/regions/Region.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/auth/AWS4Signer.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/internal/ListWithAutoConstructFlag.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/internal/SdkFilterInputStream.java
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/protocol/json/IonFactory.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/protocol/json/IonParser.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/transform/SimpleTypeIonUnmarshallers.java  
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\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/regions/LegacyRegionXmlMetadataBuilder.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/regions/RegionMetadataProvider.java  
\*  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/http/apache/client/impl/CRC32ChecksumResponseInterceptor.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/protocol/json/SdkIonGenerator.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/regions/RegionMetadataFactory.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/partitions/model/Service.java  
\* /opt/cola/permits/1549383603\_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/partitions/model/Partition.java

```
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/partitions/PartitionsLoader.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/transform/SimpleTypeCborUnmarshallers.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/partitions/model/CredentialScope.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/partitions/model/Endpoint.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/partitions/model/Region.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/regions/RegionImpl.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/partitions/PartitionRegionImpl.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/regions/InMemoryRegionImpl.java
*
/opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/partitions/PartitionMetadataProvider.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-
jar/com/amazonaws/regions/AbstractRegionMetadataProvider.java
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*/
/**
* Interface for providing AWS region information. Implementations are free to use any strategy for
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*/
```

Found in path(s):

```
* /opt/cola/permits/1549383603_1675198834.720182/0/aws-java-sdk-core-1-11-519-sources-1-jar/com/amazonaws/regions/AwsRegionProvider.java
```

# 1.1031 flink-shaded-netty 4.1.32.Final-6.0

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- io.netty:netty-all:4.1.32.Final

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# 1.1032 beam-runners-core-java 2.15.0

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```
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/MetricsPusher.java
```

```
*
 /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/TimerInternalsFactory.java
```

```
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/MetricCell.java
```

```
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/RepeatedlyStateMachine.java
```

```
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/KeyedWorkItem.java
```

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* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/LateDataDroppingDoFnRunner.java
```

```
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/GaugeCell.java
```

```
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StateNamespaceForTest.java
```

```
*
 /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/SplittableParDoViaKeyedWorkItems.java
```

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* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
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\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/SideInputHandler.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/metrics/MonitoringInfoConstants.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/metrics/MetricsContainerImpl.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/triggers/AfterAllStateMachine.java  
\*  
/opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/triggers/AfterPaneStateMachine.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/StateTags.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/UnsupportedSideInputReader.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/triggers/AfterProcessingTimeStateMachine.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/metrics/DirtyState.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/metrics/ExecutionStateTracker.java  
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\*  
/opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/metrics/DefaultMetricResults.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/ProcessFnRunner.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/triggers/AfterSynchronizedProcessingTimeStateMachine.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/package-info.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/PaneInfoTracker.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/StateInternalsFactory.java  
\*  
/opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/metrics/MetricUpdates.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/metrics/package-info.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/triggers/TriggerStateMachine.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/metrics/MonitoringInfoMetricName.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-jar/org/apache/beam/runners/core/triggers/AfterEachStateMachine.java  
\* /opt/cola/permits/1549383596\_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-

```

jar/org/apache/beam/runners/core/triggers/TriggerStateMachineRunner.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/SideInputReader.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/GroupAlsoByWindowsAggregators.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/DoFnRunners.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/SplittableProcessElementInvoker.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/serialization/Base64Serializer.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/MergingActiveWindowSet.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/serialization/package-info.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/AfterWatermarkStateMachine.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/GroupAlsoByWindowViaWindowSetNewDoFn.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/NullSideInputReader.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/ElementByteSizeObservable.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/ReduceFnRunner.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/FinishedTriggersBitSet.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/LabeledMetrics.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/PeekingReiterator.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/InMemoryTimerInternals.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/InMemoryMultimapSideInputView.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/OutputWindowedValue.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/LateDataUtils.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/ReduceFnContextFactory.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/NonMergingActiveWindowSet.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-

```

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jar/org/apache/beam/runners/core/GlobalCombineFnRunner.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/SimpleMonitoringInfoBuilder.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StateTable.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/SimplePushbackSideInputDoFnRunner.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/MetricsMap.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StateTag.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/ReduceFn.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/GroupByKeyViaGroupByKeyOnly.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/TestInMemoryStateInternals.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/SpecMonitoringInfoValidator.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/TriggerStateMachineContextFactory.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/SimpleDoFnRunner.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/FinishedTriggers.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/SimpleExecutionState.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/MetricsTranslation.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/ExecutionStateSampler.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/PushbackSideInputDoFnRunner.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/CounterCell.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/AfterFirstStateMachine.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StateNamespace.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/package-info.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/AfterDelayFromFirstElementStateMachine.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/DoFnRunner.java

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* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/WindowingInternals.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/FinishedTriggersSet.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/ActiveWindowSet.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StateNamespaces.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/MetricsContainerStepMap.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/GlobalCombineFnRunners.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/MergingStateAccessor.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/NoOpMetricsSink.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StateMerging.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/KeyedWorkItemCoder.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/NeverStateMachine.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/ExecutableTriggerStateMachine.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/ReshuffleTriggerStateMachine.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/SystemReduceFn.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/DistributionCell.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StateInternals.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/WatermarkHold.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/NonEmptyPanels.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/TimerInternals.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StatefulDoFnRunner.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/InMemoryStateInternals.java
*
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/OutputAndTimeBoundedSplittableProcessElementInvoker.java

```



```
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StepContext.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/ReadyCheckingSideInputReader.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/SimpleStateRegistry.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/StateAccessor.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/TriggerStateMachines.java
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/metrics/DistributionData.java
*
```

```
/opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/OrFinallyStateMachine.java
```

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```

```
*/
```

```
/**
```

```
* A trigger that is equivalent to {@code Repeatedly.forever(AfterWatermark.pastEndOfWindow())}. See
* {@link RepeatedlyStateMachine#forever}
* and {@link AfterWatermarkStateMachine#pastEndOfWindow} for
* more details.
```

```
*/
```

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```
* /opt/cola/permits/1549383596_1675198821.7914915/0/beam-runners-core-java-2-15-0-sources-1-
jar/org/apache/beam/runners/core/triggers/DefaultTriggerStateMachine.java
```

# 1.1033 flink-shaded-guava 18.0-6.0

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Doug Lea

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# 1.1035 slf4j 2.11.1

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Manifest-Version: 1.0

Ant-Version: Apache Ant 1.9.4

Created-By: Apache Maven Bundle Plugin

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Bundle-SymbolicName: javassist

Built-By: chiba

Bundle-ManifestVersion: 2

Bnd-LastModified: 1420514649102

Specification-Vendor: Shigeru Chiba, [www.javassist.org](http://www.javassist.org)

Specification-Title: Javassist

Tool: Bnd-0.0.357

Main-Class: javassist.CtClass

Export-Package: javassist.convert;uses:="javassist.bytecode.analysis,javassist.bytecode.javassist";version="3.19.0.GA",javassist.tools;uses:="javassist.bytecode.javassist.bytecode.analysis.javassist";version="3.19.0.GA",javassist.tools.reflect;uses:="javassist.javassist.bytecode";version="3.19.0.GA",javassist.expr;uses:="javassist.compiler.javassist.bytecode.javassist.compiler.ast.javassist";version="3.19.0.GA",javassist.tools.rmi;uses:="javassist.tools.web.javassist";version="3.19.0.GA",javassist.util;version="3.19.0.GA",javassist.bytecode.analysis;uses:="javassist.bytecode.javassist.javassist.bytecode.stackmap";version="3.19.0.GA",javassist.bytecode.annotation;uses:="javassist.bytecode.javassist";version="3.19.0.GA",javassist.bytecode.stackmap;uses:="javassist.bytecode.javassist";version="3.19.0.GA",javassist.util.proxy;uses:="javassist.bytecode.javassist";version="3.19.0.GA",javassist.compiler;uses:="javassist.bytecode.javassist.javassist.compiler.as

```
t";version="3.19.0.GA",javassist.runtime;version="3.19.0.GA",javassist
t.bytecode;uses:="javassist.bytecode.annotation,javassist,javassist.b
ytecode.stackmap";version="3.19.0.GA",javassist.scopedpool;uses:=java
ssist;version="3.19.0.GA",javassist.compiler.ast;uses:="javassist.com
piler,javassist";version="3.19.0.GA",javassist;uses:="javassist.compi
ler,javassist.bytecode,javassist.convert,javassist.expr,javassist.by
tecode.annotation,javassist.compiler.ast";version="3.19.0.GA",javassis
t.tools.web;uses:=javassist;version="3.19.0.GA"
```

Bundle-Version: 3.19.0.GA

Bundle-Name: Javassist

Ignore-Package: com.sun.jdi.event,com.sun.jdi,com.sun.jdi.request,com.
sun.jdi.connect

Specification-Version: 3.19.0-GA

Build-Jdk: 1.8.0\_25

Found in path(s):

\* /opt/cola/permits/1553481467\_1685118207.7744832/0/javassist-181-jar/META-INF/MANIFEST.MF

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/opt/cola/permits/1553481467\_1685118207.7744832/0/javassist-181-jar/javassist/CtClass.class: binary file matches

Found in path(s):

\* /bin/grep

# 1.1038 fastutil 7.0.10

## 1.1038.1 Available under license :

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\*/

package PACKAGE;

```

import java.util.List;

#if ! #keyclass(Reference)

/** A type-specific {@link List}; provides some additional methods that use polymorphism to avoid (un)boxing.
 *
 * <P>Note that this type-specific interface extends {@link Comparable}: it is expected that implementing
 * classes perform a lexicographical
 * comparison using the standard operator "less then" for primitive types,
 * and the usual {@link Comparable#compareTo(Object) compareTo()} method for objects.
 *
 * <P>Additionally, this interface strengthens {@link #listIterator()},
 * {@link #listIterator(int)} and {@link #subList(int,int)}.
 *
 * <P>Besides polymorphic methods, this interfaces specifies methods to copy into an array or remove contiguous
 * sublists. Although the abstract implementation of this interface provides simple, one-by-one implementations
 * of these methods, it is expected that concrete implementation override them with optimized versions.
 *
 * @see List
 */

public interface LIST_KEY_GENERIC extends List<KEY_GENERIC_CLASS>, Comparable<List<? extends
KEY_GENERIC_CLASS>>, COLLECTION_KEY_GENERIC {
#else

/** A type-specific {@link List}; provides some additional methods that use polymorphism to avoid (un)boxing.
 *
 * <P>Additionally, this interface strengthens {@link #iterator()}, {@link #listIterator()},
 * {@link #listIterator(int)} and {@link #subList(int,int)}. The former had been already
 * strengthened upstream, but unfortunately {@link List} re-specifies it.
 *
 * <P>Besides polymorphic methods, this interfaces specifies methods to copy into an array or remove contiguous
 * sublists. Although the abstract implementation of this interface provides simple, one-by-one implementations
 * of these methods, it is expected that concrete implementation override them with optimized versions.
 *
 * @see List
 */

public interface LIST_KEY_GENERIC extends List<KEY_GENERIC_CLASS>, COLLECTION_KEY_GENERIC
{
#endif

/** Returns a type-specific iterator on the elements of this list (in proper sequence).
 *
 * Note that this specification strengthens the one given in {@link List#iterator()}.
 * It would not be normally necessary, but {@link java.lang.Iterable#iterator()} is bizarrely re-specified
 * in {@link List}.

```

```

*
* @return an iterator on the elements of this list (in proper
sequence).
*/
KEY_LIST_ITERATOR KEY_GENERIC iterator();

/** Returns a type-specific list iterator on the list.
*
* @see #listIterator()
* @deprecated As of <code>fastutil</code> 5, replaced by { @link #listIterator()}.
*/
@Deprecated
KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD();

/** Returns a type-specific list iterator on the list starting at a given index.
*
* @see #listIterator(int)
* @deprecated As of <code>fastutil</code> 5, replaced by { @link #listIterator(int)}.
*/
@Deprecated
KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD(int index);

/** Returns a type-specific list iterator on the list.
*
* @see List#listIterator()
*/
KEY_LIST_ITERATOR KEY_GENERIC listIterator();

/** Returns a type-specific list iterator on the list starting at a given index.
*
* @see List#listIterator(int)
*/
KEY_LIST_ITERATOR KEY_GENERIC listIterator(int index);

/** Returns a type-specific view of the portion of this list from the index
<code>from</code>, inclusive, to the index <code>to</code>, exclusive.
* @see List#subList(int,int)
* @deprecated As of <code>fastutil</code> 5, replaced by { @link #subList(int,int)}.
*/
@Deprecated
LIST KEY_GENERIC SUBLIST_METHOD(int from, int to);

/** Returns a type-specific view of the portion of this list from the index <code>from</code>, inclusive, to the
index <code>to</code>, exclusive.
*
* <P>Note that this specification strengthens the one given in { @link List#subList(int,int)}.
*
* @see List#subList(int,int)

```



```

*/
LIST KEY_GENERIC subList(int from, int to);

/** Sets the size of this list.
 *
 * <P>If the specified size is smaller than the current size, the last elements are
 * discarded. Otherwise, they are filled with 0/<code>null</code>/<code>false</code>.
 *
 * @param size the new size.
 */

void size(int size);

/** Copies (hopefully quickly) elements of this type-specific list into the given array.
 *
 * @param from the start index (inclusive).

 * @param a the destination array.
 * @param offset the offset into the destination array where to store the first element copied.
 * @param length the number of elements to be copied.
 */
void getElements(int from, KEY_TYPE a[], int offset, int length);

/** Removes (hopefully quickly) elements of this type-specific list.
 *
 * @param from the start index (inclusive).
 * @param to the end index (exclusive).
 */
void removeElements(int from, int to);

/** Add (hopefully quickly) elements to this type-specific list.
 *
 * @param index the index at which to add elements.
 * @param a the array containing the elements.
 */
void addElements(int index, KEY_GENERIC_TYPE a[]);

/** Add (hopefully quickly) elements to this type-specific list.
 *
 * @param index the index at which to add elements.
 * @param a the array containing the elements.
 * @param offset the offset of the first element to add.
 * @param length the number of elements to add.
 */
void
addElements(int index, KEY_GENERIC_TYPE a[], int offset, int length);

```

```

#if #keys(primitive)

/**
 * @see List#add(Object)
 */
boolean add(KEY_TYPE key);

/**
 * @see List#add(int,Object)
 */
void add(int index, KEY_TYPE key);

/**
 * @see List#add(int,Object)
 */
boolean addAll(int index, COLLECTION c);

/**
 * @see List#add(int,Object)
 */
boolean addAll(int index, LIST c);

/**
 * @see List#add(int,Object)
 */
boolean addAll(LIST c);

/**
 * @see List#get(int)
 */
KEY_TYPE GET_KEY(int index);

/**
 * @see List#indexOf(Object)
 */
int indexOf(KEY_TYPE k);

/**
 * @see List#lastIndexOf(Object)
 */
int lastIndexOf(KEY_TYPE k);

/**
 * @see List#remove(int)
 */
KEY_TYPE REMOVE_KEY(int index);

/**

```

```
* @see List#set(int,Object)
*/
KEY_TYPE set(int index, KEY_TYPE k);

#endif

}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/List.drv
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```

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*/
```

```
package PACKAGE;
```

```
import java.util.Set;
```

```
/** An abstract class providing basic methods for sets implementing a type-specific interface. */
```

```
public abstract class ABSTRACT_SET KEY_GENERIC extends ABSTRACT_COLLECTION KEY_GENERIC
implements Cloneable, SET KEY_GENERIC {
```

```
protected ABSTRACT_SET() {}
```

```
public abstract
KEY_ITERATOR KEY_GENERIC iterator();
```

```
public boolean equals(final Object o) {
 if (o == this) return true;
 if (!(o instanceof Set)) return false;
```

```

Set<?> s = (Set<?>) o;
if (s.size() != size()) return false;
return containsAll(s);
}

/** Returns a hash code for this set.
 *
 * The hash code of a set is computed by summing the hash codes of
 * its elements.
 *
 * @return a hash code for this set.
 */

public int hashCode() {
 int h = 0, n = size();
 KEY_ITERATOR KEY_GENERIC i = iterator();
 KEY_GENERIC_TYPE k;

 while(n-- != 0) {
 k = i.NEXT_KEY(); // We need k because KEY2JAVAHASH() is a macro with repeated evaluation.
 h += KEY2JAVAHASH(k);
 }
 return h;
}

public boolean remove(KEY_TYPE k) {
 throw new UnsupportedOperationException();
}

#if #keys(primitive)

/** Delegates to <code>remove()</code>.
 *
 * @param k the element to be removed.
 * @return true if the set was modified.
 */
public boolean rem(KEY_TYPE k) {
 return
remove(k);
}

/** Delegates to the corresponding type-specific method. */
public boolean remove(final Object o) {
 return remove(KEY_OBJ2TYPE(o));
}

```

```
#endif
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractSet.drv
```

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```
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```

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```

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```

```
*/
```

```
package PACKAGE;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;
```

```
import VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;
```

```
import VALUE_PACKAGE.VALUE_ITERATOR;
```

```
import VALUE_PACKAGE.VALUE_ABSTRACT_ITERATOR;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSet;
```

```
#if #keys(primitive) && #values(primitive)
```

```
import it.unimi.dsi.fastutil.objects.ObjectIterator;
```

```
#endif
```

```
import
```

```
java.util.Iterator;
```

```
import java.util.Map;
```

```
/** An abstract class providing basic methods for maps implementing a type-specific interface.
```

```
*
```

```
* <P>Optional operations just throw an {@link
```

```
* UnsupportedOperationException}. Generic versions of accessors delegate to
```

```
* the corresponding type-specific counterparts following the interface rules
```

```
* (they take care of returning null on a missing key).
```

```
*
```

- \* <P>As a further help, this class provides a { @link BasicEntry BasicEntry } inner class
- \* that implements a type-specific version of { @link java.util.Map.Entry }; it
- \* is particularly useful for those classes that do not implement their own
- \* entries (e.g., most immutable maps).
- \*/

```
public abstract class ABSTRACT_MAP_KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
KEY_VALUE_GENERIC implements MAP_KEY_VALUE_GENERIC, java.io.Serializable {
```

```
private static final long serialVersionUID = -4940583368468432370L;
```

```
protected ABSTRACT_MAP() {}
```

```
#if #values(primitive)
```

```
public
boolean containsValue(Object ov) {
return containsValue(VALUE_OBJ2TYPE(ov));
}
#endif
```

```
/** Checks whether the given value is contained in { @link #values()}. */
```

```
public boolean containsValue(VALUE_TYPE v) {
return values().contains(v);
}
}
```

```
/** Checks whether the given value is contained in { @link #keySet()}. */
```

```
public boolean containsKey(KEY_TYPE k) {
return keySet().contains(k);
}
}
```

```
/** Puts all pairs in the given map.
```

```
* If the map implements the interface of this map,
* it uses the faster iterators.
*
* @param m a map.
*/
```

```
#if #keys(primitive) && #values(primitive)
```

```
@SuppressWarnings("deprecation")
```

```
#elif #keys(primitive) ^ #values(primitive)
```

```
@SuppressWarnings({"unchecked","deprecation"})
```

```
#endif
```

```
public void putAll(Map<? extends KEY_GENERIC_CLASS,? extends VALUE_GENERIC_CLASS> m) {
```

```
int n = m.size();
```

```
final Iterator<? extends Map.Entry<? extends KEY_GENERIC_CLASS,? extends VALUE_GENERIC_CLASS>> i
= m.entrySet().iterator();
```

```
if
```

```

(m instanceof MAP) {
 MAP.Entry KEY_VALUE_EXTENDS_GENERIC e;
 while(n-- != 0) {
 e = (MAP.Entry KEY_VALUE_EXTENDS_GENERIC)i.next();
 put(e.ENTRY_GET_KEY(), e.ENTRY_GET_VALUE());
 }
}
else {
 Map.Entry<? extends KEY_GENERIC_CLASS,? extends VALUE_GENERIC_CLASS> e;
 while(n-- != 0) {
 e = i.next();
 put(e.getKey(), e.getValue());
 }
}
}

public boolean isEmpty() {
 return size() == 0;
}

/** This class provides a basic but complete type-specific entry class for all those maps implementations
 * that do not have entries on their own (e.g., most immutable maps).
 *
 * <P>This class does not implement { @link java.util.Map.Entry#setValue(Object) setValue()}, as the modification
 * would not be reflected in the base map.
 */

public static class BasicEntry KEY_VALUE_GENERIC implements MAP.Entry KEY_VALUE_GENERIC {
 protected KEY_GENERIC_TYPE key;
 protected VALUE_GENERIC_TYPE value;

 public BasicEntry(final KEY_GENERIC_CLASS key, final VALUE_GENERIC_CLASS
value) {
 this.key = KEY_CLASS2TYPE(key);
 this.value = VALUE_CLASS2TYPE(value);
 }

 #if #keys(primitive) || #values(primitive)

 public BasicEntry(final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value) {
 this.key = key;
 this.value = value;
 }

 #endif

 #if #keys(primitive)
 /** { @inheritDoc}

```

```

 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
#endif
 public KEY_GENERIC_CLASS getKey() {
 return KEY2OBJ(key);
 }

#if #keys(primitive)
 public KEY_TYPE ENTRY_GET_KEY() {
 return key;
 }
#endif

#if #values(primitive)
 /** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
#endif
 public VALUE_GENERIC_CLASS getValue() {
 return VALUE2OBJ(value);
 }

#if #values(primitive)
 public VALUE_TYPE ENTRY_GET_VALUE() {
 return value;
 }
#endif

 public VALUE_GENERIC_TYPE setValue(final VALUE_GENERIC_TYPE value) {
 throw new UnsupportedOperationException();
 }

#if #values(primitive)
 /** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public VALUE_GENERIC_CLASS setValue(final VALUE_GENERIC_CLASS value) {
 return VALUE_CLASS.valueOf(setValue(value.VALUE_VALUE()));
 }
#endif

 public boolean equals(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 Map.Entry<?,?> e = (Map.Entry<?,?>)o;

 return KEY_EQUALS(key, KEY_OBJ2TYPE(e.getKey())) && VALUE_EQUALS(value,

```



```

VALUE_OBJ2TYPE(e.getValue());
}

public int hashCode() {
return KEY2JAVAHASH(key) ^ VALUE2JAVAHASH(value);
}

public String toString() {
return key + "->" + value;
}
}

/** Returns a type-specific-set view of the keys of this map.
*
* <P>The view is backed by the set returned by {@link #entrySet()}. Note that
* no attempt is made at caching the result of this method, as this would
* require adding some attributes
that lightweight implementations would
* not need. Subclasses may easily override this policy by calling
* this method and caching the result, but implementors are encouraged to
* write more efficient ad-hoc implementations.
*
* @return a set view of the keys of this map; it may be safely cast to a type-specific interface.
*/

public SET KEY_GENERIC keySet() {
return new ABSTRACT_SET KEY_GENERIC() {

public boolean contains(final KEY_TYPE k) { return containsKey(k); }

public int size() { return ABSTRACT_MAP.this.size(); }
public void clear() { ABSTRACT_MAP.this.clear(); }

public KEY_ITERATOR KEY_GENERIC iterator() {
return new KEY_ABSTRACT_ITERATOR KEY_GENERIC() {
final ObjectIterator<Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS>> i = entrySet().iterator();

/** {@inheritDoc}
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_TYPE NEXT_KEY()
{ return ((MAP.Entry KEY_VALUE_GENERIC)i.next()).ENTRY_GET_KEY(); };

public boolean hasNext() { return i.hasNext(); }
};
}
}

```

```

 }
 };
}

/** Returns a type-specific-set view of the values of this map.
 *
 * <P>The view is backed by the set returned by {@link #entrySet()}. Note that
 * no attempt is made at caching the result of this method, as this would
 * require adding some attributes that lightweight implementations would
 * not need. Subclasses may easily override this policy by calling
 * this method and caching the result, but implementors are encouraged to
 * write more efficient ad-hoc implementations.
 *
 * @return a set view of the values of this map; it may be safely cast to a type-specific interface.
 */

public VALUE_COLLECTION VALUE_GENERIC values() {
 return new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {

 public boolean contains(final VALUE_TYPE k) { return containsValue(k); }

 public int size() { return ABSTRACT_MAP.this.size(); }
 }

 public void clear() { ABSTRACT_MAP.this.clear(); }

 public VALUE_ITERATOR VALUE_GENERIC iterator() {
 return new VALUE_ABSTRACT_ITERATOR VALUE_GENERIC() {
 final ObjectIterator<Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS>> i = entrySet().iterator();

 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public VALUE_GENERIC_TYPE NEXT_VALUE() { return ((MAP.Entry
 KEY_VALUE_GENERIC)i.next()).ENTRY_GET_VALUE(); };

 public boolean hasNext() { return i.hasNext(); }
 };
 }
};
}

@SuppressWarnings({ "unchecked", "rawtypes" })
public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() {
 return (ObjectSet)ENTRYSET();
}

```

```

/** Returns a hash code for this map.
 *
 * The hash code of a map is computed by summing the hash codes of its entries.
 *
 * @return a hash code for this map.
 */

public int hashCode() {
 int h = 0, n = size();
 final
 ObjectIterator<? extends Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS>> i =
 entrySet().iterator();

 while(n-- != 0) h += i.next().hashCode();
 return h;
}

public boolean equals(Object o) {
 if (o == this) return true;
 if (! (o instanceof Map)) return false;

 Map<?,?> m = (Map<?,?>)o;
 if (m.size() != size()) return false;
 return entrySet().containsAll(m.entrySet());
}

public String toString() {
 final StringBuilder s = new StringBuilder();
 final ObjectIterator<? extends Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS>> i =
 entrySet().iterator();
 int n = size();
 MAP.Entry KEY_VALUE_GENERIC e;
 boolean first = true;

 s.append("{");

 while(n-- != 0) {
 if (first) first = false;
 else s.append(", ");

 e = (MAP.Entry KEY_VALUE_GENERIC)i.next();

 #if #keys(reference)
 if (this == e.getKey()) s.append("(this map)"); else
 #endif
 }
}

```

```

 s.append(String.valueOf(e.ENTRY_GET_KEY()));
 s.append(">");
 #if #values(reference)
 if
 (this == e.getValue()) s.append("(this map)"); else
 #endif
 s.append(String.valueOf(e.ENTRY_GET_VALUE()));
 }

 s.append("}");
 return s.toString();
}

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractMap.drv

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package PACKAGE;
```

```
import java.util.Collection;
```

```
/** A simple, brute-force implementation of a set based on a backing array.
```

```
*
```

```
* <p>The main purpose of this
```

```
* implementation is that of wrapping cleanly the brute-force approach to the storage of a very
```

```
* small number of items: just put them into an array and scan
```

```
linearly to find an item.
```

```
*/
```

```

public class ARRAY_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable {

 private static final long serialVersionUID = 1L;
 /** The backing array (valid up to { @link #size}, excluded). */
 private transient KEY_TYPE[] a;
 /** The number of valid entries in { @link #a}. */
 private int size;

 /** Creates a new array set using the given backing array. The resulting set will have as many elements as the array.
 *
 * <p>It is responsibility of the caller that the elements of <code>a</code> are distinct.
 *
 * @param a the backing array.
 */
 public ARRAY_SET(final KEY_TYPE[] a) {
 this.a = a;
 size = a.length;
 }

 /** Creates a new empty array set.
 */
 public ARRAY_SET() {
 this.a = ARRAYS.EMPTY_ARRAY;
 }

 /** Creates a new empty array set of given initial capacity.
 *
 * @param capacity the initial capacity.
 */
 public ARRAY_SET(final int capacity) {
 this.a = new KEY_TYPE[capacity];
 }

 /**
 Creates a new array set copying the contents of a given collection.
 * @param c a collection.
 */
 public ARRAY_SET(COLLECTION KEY_GENERIC c) {
 this(c.size ());
 addAll(c);
 }

 /** Creates a new array set copying the contents of a given set.
 * @param c a collection.
 */
 public ARRAY_SET(final Collection<? extends KEY_GENERIC_CLASS> c) {

```

```

this(c.size());
addAll(c);
}

/** Creates a new array set using the given backing array and the given number of elements of the array.
 *
 * <p>It is responsibility of the caller that the first <code>size</code> elements of <code>a</code> are distinct.
 *
 * @param a the backing array.
 * @param size the number of valid elements in <code>a</code>.
 */
public ARRAY_SET(final KEY_TYPE[] a, final int size) {
 this.a = a;
 this.size = size;
 if (size > a.length) throw new IllegalArgumentException("The provided size (" + size + ") is larger than or equal
to the array size (" + a.length + ")");
}

private int
findKey(final KEY_TYPE o) {
 for(int i = size; i-- != 0;) if (KEY_EQUALS(a[i], o)) return i;
 return -1;
}

@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_ITERATOR KEY_GENERIC iterator() {
 return ITERATORS.wrap(KEY_GENERIC_ARRAY_CAST a, 0, size);
}

public boolean contains(final KEY_TYPE k) {
 return findKey(k) != -1;
}

public int size() {
 return size;
}

@Override
public boolean remove(final KEY_TYPE k) {
 final int pos = findKey(k);
 if (pos == -1) return false;
 final int tail = size - pos - 1;
 for(int i = 0; i < tail; i++) a[pos + i] = a[pos + i + 1];
 size--;
 #if #keys(reference)
 a[size] = null;

```

```

#endif
 return true;
}

@Override
public boolean add(final KEY_GENERIC_TYPE k) {
 final int pos = findKey(k);
 if (pos != -1) return false;
 if (size == a.length) {
 final KEY_TYPE[] b = new KEY_TYPE[size == 0 ? 2 : size * 2];
 for(int i = size; i-- != 0;) b[i] = a[i];
 a = b;
 }
 a[size++]
 = k;
 return true;
}

@Override
public void clear() {
 #if #keys(reference)
 for(int i = size; i-- != 0;) a[i] = null;
 #endif
 size = 0;
}

@Override
public boolean isEmpty() {
 return size == 0;
}

/** Returns a deep copy of this set.
 *
 * <P>This method performs a deep copy of this hash set; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public ARRAY_SET KEY_GENERIC clone() {
 ARRAY_SET KEY_GENERIC c;
 try {
 c = (ARRAY_SET KEY_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }
}

```

```

c.a = a.clone();
return c;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 s.defaultWriteObject();
 for(int i = 0; i < size; i++) s.WRITE_KEY(a[i]);
}

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException,
ClassNotFoundException {
 s.defaultReadObject();
 a = new KEY_TYPE[size];
 for(int i = 0; i < size; i++) a[i] = s.READ_KEY();
}

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArraySet.drv  
No license file was found, but licenses were detected in source scan.

/\*

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*/
```

```
package PACKAGE;
```

```
import java.util.Arrays;
import java.util.Random;
```

```
import it.unimi.dsi.fastutil.BigArrays;
import it.unimi.dsi.fastutil.Hash;
import static it.unimi.dsi.fastutil.BigArrays.start;
import static it.unimi.dsi.fastutil.BigArrays.segment;
import static it.unimi.dsi.fastutil.BigArrays.displacement;
import static it.unimi.dsi.fastutil.BigArrays.SEGMENT_MASK;
import static it.unimi.dsi.fastutil.BigArrays.SEGMENT_SIZE;
```

```
#if #keys(primitive)
```

```
#if ! #keyclass(Byte) && ! #keyclass(Boolean)
import it.unimi.dsi.fastutil.bytes.ByteBigArrays;
#endif
```

```
/** A class providing static methods and objects that do useful things with { @linkplain BigArrays big arrays }.
*
* <p>In particular, the <code>ensureCapacity()</code>, <code>grow()</code>,
* <code>trim()</code> and <code>setLength()</code> methods allow to handle
* big arrays much like array lists.
*
* <P>Note that { @link it.unimi.dsi.fastutil.io.BinIO } and { @link it.unimi.dsi.fastutil.io.TextIO }
* contain several methods that make it possible to load and save big arrays of primitive types as sequences
* of elements in { @link java.io.DataInput } format (i.e., not as objects) or as sequences of lines of text.
*
* @see BigArrays
*/
```

```
public class BIG_ARRAYS {
```

```
#else
```

```
import java.util.Comparator;
```

```
/** A class providing static methods and objects that do useful things with { @linkplain BigArrays big arrays }.
*
* <p>In particular, the <code>ensureCapacity()</code>, <code>grow()</code>,
* <code>trim()</code> and <code>setLength()</code> methods allow to handle
* arrays much like array lists.
*
*/
```

```

* <P>Note that { @link it.unimi.dsi.fastutil.io.BinIO } and { @link it.unimi.dsi.fastutil.io.TextIO }
* contain several methods make it possible to load and save big arrays of
primitive types as sequences
* of elements in { @link java.io.DataInput } format (i.e., not as objects) or as sequences of lines of text.
*
* <P>Warning: creating arrays
* using { @link plain java.lang.reflect.Array#newInstance(Class,int) reflection }, as it
* happens in { @link #ensureCapacity(Object[][],long,long) } and { @link #grow(Object[][],long,long) },
* is significantly slower than using <code>new</code>. This phenomenon is particularly
* evident in the first growth phases of an array reallocated with doubling (or similar) logic.
*
* @see BigArrays
*/

```

```

public class BIG_ARRAYS {

#endif
private BIG_ARRAYS() {}

/** A static, final, empty big array. */
public final static KEY_TYPE[][] EMPTY_BIG_ARRAY = {};

/** Returns the element of the given big array of specified index.
*
* @param array a big array.
* @param index a position in the big array.
* @return the element of the big array at the specified position.
*/
public static KEY_GENERIC
KEY_GENERIC_TYPE get(final KEY_GENERIC_TYPE[][] array, final long index) {
return array[segment(index)][displacement(index)];
}

/** Sets the element of the given big array of specified index.
*
* @param array a big array.
* @param index a position in the big array.
* @param value the new value for the array element at the specified position.
*/
public static KEY_GENERIC void set(final KEY_GENERIC_TYPE[][] array, final long index,
KEY_GENERIC_TYPE value) {
array[segment(index)][displacement(index)] = value;
}

/** Swaps the element of the given big array of specified indices.
*
* @param array a big array.
* @param first a position in the big array.

```

```

* @param second a position in the big array.
*/
public static KEY_GENERIC void swap(final KEY_GENERIC_TYPE[][] array, final long first, final long second)
{
 final KEY_GENERIC_TYPE t = array[segment(first)][displacement(first)];
 array[segment(first)][displacement(first
)] = array[segment(second)][displacement(second)];
 array[segment(second)][displacement(second)] = t;
}

#if #keys(primitive) && ! #keyclass(Boolean)
/** Adds the specified increment the element of the given big array of specified index.
*
* @param array a big array.
* @param index a position in the big array.
* @param incr the increment
*/
public static void add(final KEY_GENERIC_TYPE[][] array, final long index, KEY_GENERIC_TYPE incr) {
 array[segment(index)][displacement(index)] += incr;
}

/** Multiplies by the specified factor the element of the given big array of specified index.
*
* @param array a big array.
* @param index a position in the big array.
* @param factor the factor
*/
public static void mul(final KEY_GENERIC_TYPE[][] array, final long index, KEY_GENERIC_TYPE factor) {
 array[segment(index)][displacement(index)] *= factor;
}

/** Increments the element of the given big array of specified index.
*
* @param array a big array.
* @param index a position in the big array.
*/
public static void incr(final KEY_GENERIC_TYPE[][] array, final long index) {
 array[segment(index)][displacement(index)]++;
}

/** Decrements the element of the given big array of specified index.
*
* @param array a big array.
* @param index a position in the big array.
*/
public static void decr(final KEY_GENERIC_TYPE[][] array, final long index) {
 array[segment(index)][displacement(index)]--;
}

```

```

}

#endif

/** Returns the length of the given big array.
 *
 * @param array a big array.
 * @return the length of the given big array.
 */
public static KEY_GENERIC long length(final KEY_GENERIC_TYPE[][] array) {
 final int length = array.length;
 return length == 0 ? 0 : start(length - 1) + array[length - 1].length;
}

/** Copies a big array from the specified source big array, beginning at the specified position, to the specified
position of the destination
big array.
 * Handles correctly overlapping regions of the same big array.
 *
 * @param srcArray the source big array.
 * @param srcPos the starting position in the source big array.
 * @param destArray the destination big array.
 * @param destPos the starting position in the destination data.
 * @param length the number of elements to be copied.
 */
public static KEY_GENERIC void copy(final KEY_GENERIC_TYPE[][] srcArray, final long srcPos, final
KEY_GENERIC_TYPE[][] destArray, final long destPos, long length) {
 if (destPos <= srcPos) {
 int srcSegment = segment(srcPos);
 int destSegment = segment(destPos);
 int srcDispl = displacement(srcPos);
 int destDispl = displacement(destPos);
 int l;
 while(length > 0) {
 l = (int)Math.min(length, Math.min(srcArray[srcSegment].length - srcDispl, destArray[destSegment].length -
destDispl));
 System.arraycopy(srcArray[srcSegment], srcDispl, destArray[destSegment], destDispl, l);
 if
((srcDispl += l) == SEGMENT_SIZE) {
 srcDispl = 0;
 srcSegment++;
 }
 if ((destDispl += l) == SEGMENT_SIZE) {
 destDispl = 0;
 destSegment++;
 }
 }
 }
}

```

```

 length -= 1;
}
}
else {
 int srcSegment = segment(srcPos + length);
 int destSegment = segment(destPos + length);
 int srcDispl = displacement(srcPos + length);
 int destDispl = displacement(destPos + length);
 int l;
 while(length > 0) {
 if (srcDispl == 0) {
 srcDispl = SEGMENT_SIZE;
 srcSegment--;
 }
 if (destDispl == 0) {
 destDispl = SEGMENT_SIZE;
 destSegment--;
 }
 l = (int)Math.min(length, Math.min(srcDispl, destDispl));
 System.arraycopy(srcArray[srcSegment], srcDispl - l, destArray[destSegment], destDispl - l, l);
 srcDispl -= l;
 destDispl -= l;
 length -= l;
 }
}
}
}

```

/\*\* Copies a big array from the specified source big array, beginning at the specified position, to the specified position of the destination

array.

\*

\* @param srcArray the source big array.

\* @param srcPos the starting position in the source big array.

\* @param destArray the destination array.

\* @param destPos the starting position in the destination data.

\* @param length the number of elements to be copied.

\*/

```

public static KEY_GENERIC void copyFromBig(final KEY_GENERIC_TYPE[][] srcArray, final long srcPos,
final KEY_GENERIC_TYPE[] destArray, int destPos, int length) {

```

```

 int srcSegment = segment(srcPos);

```

```

 int srcDispl = displacement(srcPos);

```

```

 int l;

```

```

 while(length > 0) {

```

```

 l = Math.min(srcArray[srcSegment].length - srcDispl, length);

```

```

 System.arraycopy(srcArray[srcSegment], srcDispl, destArray, destPos, l);

```

```

 if ((srcDispl += l) == SEGMENT_SIZE) {

```

```

 srcDispl = 0;

```

```

 srcSegment++;

```

```

 }
 destPos += 1;
 length -= 1;
 }
}

/** Copies an array from the specified source array, beginning at the specified position, to the specified position of
the destination big array.

*
* @param srcArray the source array.
* @param srcPos the starting position in the source array.
* @param destArray the destination big array.
* @param destPos the starting position in the destination data.
* @param length the number of elements to be copied.
*/
public static KEY_GENERIC void copyToBig(final KEY_GENERIC_TYPE[] srcArray, int srcPos, final
KEY_GENERIC_TYPE[][] destArray, final long destPos, long length) {
 int destSegment = segment(destPos);
 int destDispl = displacement(destPos);
 int l;
 while(length > 0) {
 l = (int)Math.min(destArray[destSegment].length - destDispl, length);
 System.arraycopy(srcArray, srcPos, destArray[destSegment], destDispl, l);
 if ((destDispl += l) == SEGMENT_SIZE) {
 destDispl = 0;
 destSegment++;
 }
 srcPos += l;
 length -= l;
 }
}

#if #keyclass(Object)
/** Creates a new big array using the given one as prototype.
*
* <P>This method returns a new big array of the given length
whose element
* are of the same class as of those of <code>prototype</code>. In case
* of an empty big array, it tries to return { @link #EMPTY_BIG_ARRAY }, if possible.
*
* @param prototype a big array that will be used to type the new one.
* @param length the length of the new big array.
* @return a new big array of given type and length.
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public static <K> K[][] newBigArray(final K[][] prototype, final long length) {

```

```

return (K[][])newBigArray(prototype.getClass().getComponentType(), length);
}

/** Creates a new big array using a the given one as component type.
 *
 * <P>This method returns a new big array whose segments
 * are of class <code>componentType</code>. In case
 * of an empty big array, it tries to return { @link #EMPTY_BIG_ARRAY }, if possible.
 *
 * @param componentType a class representing the type of segments of the array to be created.
 * @param length the length of the new big array.
 * @return a
new big array of given type and length.
 */

private static Object[][] newBigArray(Class<?> componentType, final long length) {
 if (length == 0 && componentType == Object[].class) return EMPTY_BIG_ARRAY;
 final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
 Object[][] base = (Object[][])java.lang.reflect.Array.newInstance(componentType, baseLength);
 final int residual = (int)(length & SEGMENT_MASK);
 if (residual != 0) {
 for(int i = 0; i < baseLength - 1; i++) base[i] = (Object[])java.lang.reflect.Array.newInstance(
componentType.getComponentType(), SEGMENT_SIZE);
 base[baseLength - 1] = (Object[])java.lang.reflect.Array.newInstance(componentType.getComponentType(),
residual);
 }
 else for(int i = 0; i < baseLength; i++) base[i] = (Object[])java.lang.reflect.Array.newInstance(
componentType.getComponentType(), SEGMENT_SIZE);

 return base;
}
#endif

/** Creates a new big array.
 *
 * @param length the length of the new big array.

 * @return a new big array of given length.
 */

public static KEY_TYPE[][] newBigArray(final long length) {
 if (length == 0) return EMPTY_BIG_ARRAY;
 final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
 KEY_TYPE[][] base = new KEY_TYPE[baseLength][];
 final int residual = (int)(length & SEGMENT_MASK);
 if (residual != 0) {
 for(int i = 0; i < baseLength - 1; i++) base[i] = new KEY_TYPE[SEGMENT_SIZE];
 base[baseLength - 1] = new KEY_TYPE[residual];
 }
}

```

```

 }
 else for(int i = 0; i < baseLength; i++) base[i] = new KEY_TYPE[SEGMENT_SIZE];

 return base;
}

#if #keyclass(Object)
/** Turns a standard array into a big array.
 *
 * <P>Note that the returned big array might contain as a segment the original array.
 *
 * @param array an array.
 * @return a new big array with the same length and content of <code>array</code>.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public static <K> K[][] wrap(final K[] array) {
 if (array.length
 == 0 && array.getClass() == Object[].class) return KEY_GENERIC_BIG_ARRAY_CAST
EMPTY_BIG_ARRAY;
 if (array.length <= SEGMENT_SIZE) {
 final K[][] bigArray = (K[][])java.lang.reflect.Array.newInstance(array.getClass(), 1);
 bigArray[0] = array;
 return bigArray;
 }
 final K[][] bigArray = (K[][])newBigArray(array.getClass(), array.length);
 for(int i = 0; i < bigArray.length; i++) System.arraycopy(array, (int)start(i), bigArray[i], 0, bigArray[i].length
);
 return bigArray;
}

#else
/** Turns a standard array into a big array.
 *
 * <P>Note that the returned big array might contain as a segment the original array.
 *
 * @param array an array.
 * @return a new big array with the same length and content of <code>array</code>.
 */

public static KEY_TYPE[][] wrap(final KEY_TYPE[] array) {
 if (array.length == 0) return EMPTY_BIG_ARRAY;
 if (array.length <= SEGMENT_SIZE) return new KEY_TYPE[][] { array };
 final KEY_TYPE[][] bigArray = newBigArray(
array.length);
 for(int i = 0; i < bigArray.length; i++) System.arraycopy(array, (int)start(i), bigArray[i], 0, bigArray[i].length
);
 return bigArray;
}

```



```

}
#endif
/** Ensures that a big array can contain the given number of entries.
 *
 * <P>If you cannot foresee whether this big array will need again to be
 * enlarged, you should probably use grow() instead.
 *
 * <p>Warning: the returned array might use part of the segments of the original
 * array, which must be considered read-only after calling this method.
 *
 * @param array a big array.
 * @param length the new minimum length for this big array.
 * @return array, if it contains length entries or more; otherwise,
 * a big array with length entries whose first length(array)
 * entries are the same as those of array.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[][] ensureCapacity(final KEY_GENERIC_TYPE[][]
array, final long length) {
 return ensureCapacity(array, length, length(array));
}

```

```

#if #keyclass(Object)

```

```

/** Ensures that a big array can contain the given number of entries, preserving just a part of the big array.
 *
 * <P>This method returns a new big array of the given length whose element
 * are of the same class as of those of array.
 *
 * <p>Warning: the returned array might use part of the segments of the original
 * array, which must be considered read-only after calling this method.
 *
 * @param array a big array.
 * @param length the new minimum length for this big array.
 * @param preserve the number of elements of the big array that must be preserved in case a new allocation is
necessary.
 * @return array, if it can contain length entries or more; otherwise,
 * a big array with length entries whose first preserve
 * entries are the same as those of array.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC KEY_GENERIC_TYPE[][] ensureCapacity(final KEY_GENERIC_TYPE[][] array,
final long length, final long preserve) {
 final long oldLength = length(array);
 if (length > oldLength) {
 final int valid = array.length - (array.length == 0 || array.length > 0 && array[array.length - 1].length ==
SEGMENT_SIZE ? 0 : 1);
 final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);

```

```

final KEY_GENERIC_TYPE[][] base = Arrays.copyOf(array, baseLength);
final Class<?> componentType = array.getClass().getComponentType();
final int residual = (int)(length & SEGMENT_MASK);
if (residual != 0) {
 for(int i = valid; i < baseLength - 1; i++) base[i] =
(KEY_GENERIC_TYPE[])java.lang.reflect.Array.newInstance(componentType.getComponentType(),
SEGMENT_SIZE);
 base[baseLength - 1] = (KEY_GENERIC_TYPE[])java.lang.reflect.Array.newInstance(
componentType.getComponentType(), residual);
}
else
for(int i = valid; i < baseLength; i++) base[i] = (KEY_GENERIC_TYPE[])java.lang.reflect.Array.newInstance(
componentType.getComponentType(), SEGMENT_SIZE);

if (preserve - (valid * (long)SEGMENT_SIZE) > 0) copy(array, valid * (long)SEGMENT_SIZE, base, valid *
(long)SEGMENT_SIZE, preserve - (valid * (long)SEGMENT_SIZE));
return base;
}
return array;
}

```

#else

```

/** Ensures that a big array can contain the given number of entries, preserving just a part of the big array.
 *
 * <p>Warning: the returned array might use part of the segments of the original
 * array, which must be considered read-only after calling this method.
 *
 * @param array a big array.
 * @param length the new minimum length for this big array.
 * @param preserve the number of elements of the big array that must be preserved in case a new allocation is
necessary.
 * @return <code>array</code>, if it can contain <code>length</code> entries or more; otherwise,
 *
a big array with <code>length</code> entries whose first <code>preserve</code>
 * entries are the same as those of <code>array</code>.
 */
public static KEY_TYPE[][] ensureCapacity(final KEY_TYPE[][] array, final long length, final long preserve) {
 final long oldLength = length(array);
 if (length > oldLength) {
 final int valid = array.length - (array.length == 0 || array.length > 0 && array[array.length - 1].length ==
SEGMENT_SIZE ? 0 : 1);
 final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
 final KEY_TYPE[][] base = Arrays.copyOf(array, baseLength);
 final int residual = (int)(length & SEGMENT_MASK);
 if (residual != 0) {
 for(int i = valid; i < baseLength - 1; i++) base[i] = new KEY_TYPE[SEGMENT_SIZE];
 base[baseLength - 1] = new KEY_TYPE[residual];

```

```

 }
 else for(int i = valid; i < baseLength; i++) base[i] = new KEY_TYPE[SEGMENT_SIZE];

 if (preserve - (valid * (long)SEGMENT_SIZE) > 0) copy(array, valid
* (long)SEGMENT_SIZE, base, valid * (long)SEGMENT_SIZE, preserve - (valid * (long)SEGMENT_SIZE));
 return base;
}
return array;
}

```

```
#endif
```

```

/** Grows the given big array to the maximum between the given length and
* the current length multiplied by two, provided that the given
* length is larger than the current length.
*
* <P>If you want complete control on the big array growth, you
* should probably use ensureCapacity() instead.
*
* <p>Warning: the returned array might use part of the segments of the original
* array, which must be considered read-only after calling this method.
*
* @param array a big array.
* @param length the new minimum length for this big array.
* @return array, if it can contain length
* entries; otherwise, a big array with
* $\max(\text{length}, \text{length}(\text{array})/\phi)$ entries whose first
* length(array) entries are the same as those of array.
* */

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] grow(final KEY_GENERIC_TYPE[][] array, final long
length) {
 final long oldLength = length(array);
 return length > oldLength ? grow(array, length, oldLength) : array;
}

```

```

/** Grows the given big array to the maximum between the given length and
* the current length multiplied by two, provided that the given
* length is larger than the current length, preserving just a part of the big array.
*
* <P>If you want complete control on the big array growth, you
* should probably use ensureCapacity() instead.
*
* <p>Warning: the returned array might use part of the segments of the original
* array, which must be considered read-only after calling this method.
*
* @param array a big array.

```

\* @param length the new minimum length for this big array.  
\* @param preserve the number of elements of the big array that must be preserved in case a new allocation is necessary.

\* @return `array`, if it can contain `length`  
\* entries; otherwise, a big array with  
\*  $\max(\text{length}, \text{length}(\text{array})/\phi)$  entries whose first  
\* `preserve` entries are the same as those of `array`.  
\* \*/

```
public static KEY_GENERIC KEY_GENERIC_TYPE[][] grow(final KEY_GENERIC_TYPE[][] array, final long
length, final long preserve) {
 final long oldLength = length(array);
 return length > oldLength ? ensureCapacity(array, Math.max(2 * oldLength, length), preserve) : array;
}
```

```
#if #keyclass(Object)
```

```
/** Trims the given big array to the given length.
 *
 * <p>Warning: the returned array might use part of the segments of the original
 * array, which must be considered read-only after calling this method.
 *
 * @param array a big array.
 * @param length the new maximum length for the big array.
 * @return array, if it contains length
 * entries or
less; otherwise, a big array with
 * length entries whose entries are the same as
 * the first length entries of array.
 *
 */
```

```
public static KEY_GENERIC KEY_GENERIC_TYPE[][] trim(final KEY_GENERIC_TYPE[][] array, final long
length) {
 final long oldLength = length(array);
 if (length >= oldLength) return array;
 final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
 final KEY_GENERIC_TYPE[][] base = Arrays.copyOf(array, baseLength);
 final int residual = (int)(length & SEGMENT_MASK);
 if (residual != 0) base[baseLength - 1] = ARRAYS.trim(base[baseLength - 1], residual);
 return base;
}
```

```
#else
```

```
/** Trims the given big array to the given length.
 *
```

```

* <p>Warning: the returned array might use part of the segments of the original
* array, which must be considered read-only after calling this method.
*
* @param array a big array.
* @param length the new maximum length for the big
array.
* @return <code>array</code>, if it contains <code>length</code>
* entries or less; otherwise, a big array with
* <code>length</code> entries whose entries are the same as
* the first <code>length</code> entries of <code>array</code>.
*
*/

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] trim(final KEY_GENERIC_TYPE[][] array, final long
length) {
 final long oldLength = length(array);
 if (length >= oldLength) return array;
 final int baseLength = (int)((length + SEGMENT_MASK) / SEGMENT_SIZE);
 final KEY_TYPE[][] base = Arrays.copyOf(array, baseLength);
 final int residual = (int)(length & SEGMENT_MASK);
 if (residual != 0) base[baseLength - 1] = ARRAYS.trim(base[baseLength - 1], residual);
 return base;
}

```

```

#endif

```

```

/** Sets the length of the given big array.
*
* <p>Warning: the returned array might use part of the segments of the original
* array, which must be considered read-only after calling this method.
*
*
* @param array a big array.
* @param length the new length for the big array.
* @return <code>array</code>, if it contains exactly <code>length</code>
* entries; otherwise, if it contains more than
* <code>length</code> entries, a big array with <code>length</code> entries
* whose entries are the same as the first <code>length</code> entries of
* <code>array</code>; otherwise, a big array with <code>length</code> entries
* whose first <code>length(array)</code> entries are the same as those of
* <code>array</code>.
*
*/

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[][] setLength(final KEY_GENERIC_TYPE[][] array, final
long length) {
 final long oldLength = length(array);
 if (length == oldLength) return array;

```

```
if (length < oldLength) return trim(array, length);
return ensureCapacity(array, length);
}
```

```
/** Returns a copy of a portion of a big array.
```

```
*
```

```
* @param array a big array.
```

```
* @param offset the first element to copy.
```

```
* @param length
```

```
the number of elements to copy.
```

```
* @return a new big array containing <code>length</code> elements of <code>array</code> starting at <code>offset</code>.
```

```
*/
```

```
public static KEY_GENERIC KEY_GENERIC_TYPE[][] copy(final KEY_GENERIC_TYPE[][] array, final long offset, final long length) {
```

```
 ensureOffsetLength(array, offset, length);
```

```
 final KEY_GENERIC_TYPE[][] a =
```

```
#if #keyclass(Object)
```

```
 newBigArray(array, length);
```

```
#else
```

```
 newBigArray(length);
```

```
#endif
```

```
 copy(array, offset, a, 0, length);
```

```
 return a;
```

```
}
```

```
/** Returns a copy of a big array.
```

```
*
```

```
* @param array a big array.
```

```
* @return a copy of <code>array</code>.
```

```
*/
```

```
public static KEY_GENERIC KEY_GENERIC_TYPE[][] copy(final KEY_GENERIC_TYPE[][] array) {
```

```
 final KEY_GENERIC_TYPE[][] base = array.clone();
```

```
 for(int i = base.length; i-- != 0;) base[i] = array[i].clone();
```

```
 return base;
```

```
}
```

```
/** Fills the given big array with the given value.
```

```
*
```

```
* <P>This method uses a backward loop. It is significantly faster than the corresponding
```

```
* method in { @link java.util.Arrays }.
```

```
*
```

```
* @param array a big array.
```

```
* @param value the new value for all elements of the big array.
```

```
*/
```

```

public static KEY_GENERIC void fill(final KEY_GENERIC_TYPE[][] array, final KEY_GENERIC_TYPE value
) {
 for(int i = array.length; i-- != 0;) Arrays.fill(array[i], value);
}

```

```

/** Fills a portion of the given big array with the given value.
 *
 * <P>If possible (i.e., <code>from</code> is 0) this method uses a
 * backward loop. In this case, it is significantly faster than the
 * corresponding method in { @link java.util.Arrays}.
 *
 * @param array a big array.
 * @param from the starting index of the portion to fill.
 * @param to the end index of the portion to fill.
 * @param value the new value for all elements of the specified portion of the big array.
 */

```

```

public static KEY_GENERIC void fill(final KEY_GENERIC_TYPE[][] array, final long from, long to, final
KEY_GENERIC_TYPE value) {
 final long
length = length(array);
 BigArrays.ensureFromTo(length, from, to);
 int fromSegment = segment(from);
 int toSegment = segment(to);
 int fromDispl = displacement(from);
 int toDispl = displacement(to);
 if (fromSegment == toSegment) {
 Arrays.fill(array[fromSegment], fromDispl, toDispl, value);
 return;
 }

 if (toDispl != 0) Arrays.fill(array[toSegment], 0, toDispl, value);
 while(--toSegment > fromSegment) Arrays.fill(array[toSegment], value);
 Arrays.fill(array[fromSegment], fromDispl, SEGMENT_SIZE, value);
}

```

```

/** Returns true if the two big arrays are elementwise equal.
 *
 * <P>This method uses a backward loop. It is significantly faster than the corresponding
 * method in { @link java.util.Arrays}.
 *
 * @param a1 a big array.
 * @param a2 another big array.
 * @return true if the two big arrays are of the same length, and their elements are equal.
 */

```

```

public static KEY_GENERIC boolean equals(final KEY_GENERIC_TYPE[][]
a1, final KEY_GENERIC_TYPE a2[][]) {
 if (length(a1) != length(a2)) return false;
 int i = a1.length, j;
 KEY_GENERIC_TYPE[] t, u;
 while(i-- != 0) {
 t = a1[i];
 u = a2[i];
 j = t.length;
 while(j-- != 0) if (! KEY_EQUALS(t[j], u[j])) return false;
 }
 return true;
}

```

/\* Returns a string representation of the contents of the specified big array.

\*

\* The string representation consists of a list of the big array's elements, enclosed in square brackets ("[]"). Adjacent elements are separated by the characters ", " (a comma followed by a space). Returns "null" if `a` is null.

\* @param a the big array whose string representation to return.

\* @return the string representation of `a`.

\*/

```

public static KEY_GENERIC String toString(final KEY_GENERIC_TYPE[][] a) {
 if (a == null) return "null";
 final long last = length(a) - 1;
 if (last == - 1) return "[]";
 final StringBuilder b = new StringBuilder();
 b.append("[");
 for
 (long i = 0; ; i++) {
 b.append(String.valueOf(get(a, i)));
 if (i == last) return b.append("]").toString();
 b.append(", ");
 }
}

```

/\*\* Ensures that a range given by its first (inclusive) and last (exclusive) elements fits a big array.

\*

\* <P>This method may be used whenever a big array range check is needed.

\*

\* @param a a big array.

\* @param from a start index (inclusive).

\* @param to an end index (inclusive).

\* @throws IllegalArgumentException if `from` is greater than `to`.

\* @throws ArrayIndexOutOfBoundsException if `from` or `to` are greater than the big array length or negative.



```

*/
public static KEY_GENERIC void ensureFromTo(final KEY_GENERIC_TYPE[][] a, final long from, final long to
) {
 BigArrays.ensureFromTo(length(a), from, to);
}

/** Ensures that a range given by an offset and a length fits a big array.
*
* <P>This method may be used whenever a big array range
check is needed.
*
* @param a a big array.
* @param offset a start index.
* @param length a length (the number of elements in the range).
* @throws IllegalArgumentException if <code>length</code> is negative.
* @throws ArrayIndexOutOfBoundsException if <code>offset</code> is negative or
<code>offset</code>+<code>length</code> is greater than the big array length.
*/
public static KEY_GENERIC void ensureOffsetLength(final KEY_GENERIC_TYPE[][] a, final long offset, final
long length) {
 BigArrays.ensureOffsetLength(length(a), offset, length);
}

/** A type-specific content-based hash strategy for big arrays. */

private static final class BigArrayHashStrategy KEY_GENERIC implements
Hash.Strategy<KEY_GENERIC_TYPE[][]>, java.io.Serializable {
 private static final long serialVersionUID = -7046029254386353129L;

 public int hashCode(final KEY_GENERIC_TYPE[][] o) {
 return java.util.Arrays.deepHashCode(o);
 }

 public boolean equals(final KEY_GENERIC_TYPE[][]
a, final KEY_GENERIC_TYPE[][] b) {
 return BIG_ARRAYS.equals(a, b);
 }
}

/** A type-specific content-based hash strategy for big arrays.
*
* <P>This hash strategy may be used in custom hash collections whenever keys are
* big arrays, and they must be considered equal by content. This strategy
* will handle <code>null</code> correctly, and it is serializable.
*/

@SuppressWarnings({"rawtypes"})

```

```

public final static Hash.Strategy HASH_STRATEGY = new BigArrayHashStrategy();

private static final int SMALL = 7;
private static final int MEDIUM = 40;

private static KEY_GENERIC void vecSwap(final KEY_GENERIC_TYPE[][] x, long a, long b, final long n) {
 for(int i = 0; i < n; i++, a++, b++) swap(x, a, b);
}

private static KEY_GENERIC long med3(final KEY_GENERIC_TYPE x[][], final long a, final long b, final long
c, KEY_COMPARATOR KEY_GENERIC comp) {
 int ab = comp.compare(get(x, a), get(x, b));
 int ac = comp.compare(get(x, a), get(
x, c));
 int bc = comp.compare(get(x, b), get(x, c));
 return (ab < 0 ?
(bc < 0 ? b : ac < 0 ? c : a) :
(bc > 0 ? b : ac > 0 ? c : a));
}

private static KEY_GENERIC void selectionSort(final KEY_GENERIC_TYPE[][] a, final long from, final long to,
final KEY_COMPARATOR KEY_GENERIC comp) {
 for(long i = from; i < to - 1; i++) {
 long m = i;
 for(long j = i + 1; j < to; j++) if (comp.compare(BIG_ARRAYS.get(a, j), BIG_ARRAYS.get(a, m)) < 0) m =
j;
 if (m != i) swap(a, i, m);
 }
}

/** Sorts the specified range of elements according to the order induced by the specified
 * comparator using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * @param x the big array to be sorted.
 * @param from the index of the first element (inclusive)
to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 * @param comp the comparator to determine the sorting order.
 */
public static KEY_GENERIC void quickSort(final KEY_GENERIC_TYPE[][] x, final long from, final long to,
final KEY_COMPARATOR KEY_GENERIC comp) {
 final long len = to - from;

 // Selection sort on smallest arrays

```

```

if (len < SMALL) {
 selectionSort(x, from, to, comp);
 return;
}

// Choose a partition element, v
long m = from + len / 2; // Small arrays, middle element
if (len > SMALL) {
 long l = from;
 long n = to - 1;
 if (len > MEDIUM) { // Big arrays, pseudomedian of 9
 long s = len / 8;
 l = med3(x, l, l + s, l + 2 * s, comp);
 m = med3(x, m - s, m, m + s, comp);
 n = med3(x, n - 2 * s, n - s, n, comp);
 }
 m = med3(x, l, m, n, comp); // Mid-size, med of 3
}

final KEY_GENERIC_TYPE v = get(x, m);

// Establish Invariant: v* (<v)* (>v)* v*
long a = from, b = a, c =
to - 1, d = c;
while(true) {
 int comparison;
 while (b <= c && (comparison = comp.compare(get(x, b), v) <= 0) {
 if (comparison == 0) swap(x, a++, b);
 b++;
 }
 while (c >= b && (comparison = comp.compare(get(x, c), v) >= 0) {
 if (comparison == 0) swap(x, c, d--);
 c--;
 }
 if (b > c) break;
 swap(x, b++, c--);
}

// Swap partition elements back to middle
long s, n = to;
s = Math.min(a - from, b - a);
vecSwap(x, from, b - s, s);
s = Math.min(d - c, n - d - 1);
vecSwap(x, b, n - s, s);

// Recursively sort non-partition-elements
if ((s = b - a) > 1) quickSort(x, from, from + s, comp);
if ((s = d - c) > 1) quickSort(x, n - s, n, comp);

```

```
}
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
private static KEY_GENERIC long med3(final KEY_GENERIC_TYPE x[][], final long a, final long b, final long c
) {
 int ab = KEY_CMP(get(x, a), get(x, b));
 int ac = KEY_CMP(get(x, a), get(x, c));
 int bc = KEY_CMP(
get(x, b), get(x, c));
 return (ab < 0 ?
 (bc < 0 ? b : ac < 0 ? c : a) :
 (bc > 0 ? b : ac > 0 ? c : a));
}
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
private static KEY_GENERIC void selectionSort(final KEY_GENERIC_TYPE[][] a, final long from, final long to
) {
 for(long i = from; i < to - 1; i++) {
 long m = i;
 for(long j = i + 1; j < to; j++) if (KEY_LESS(BIG_ARRAYS.get(a, j), BIG_ARRAYS.get(a, m))) m = j;
 if (m != i) swap(a, i, m);
 }
}
```

```
/** Sorts the specified big array according to the order induced by the specified
```

```
* comparator using quicksort.
```

```
*
```

```
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
```

```
* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
```

```
* 1249−1265, 1993.
```

```
*
```

```
* @param x the big array to be sorted.
```

```
* @param comp the comparator to determine the sorting order.
```

```
*
```

```
*/
```

```
public static KEY_GENERIC void quickSort(
final KEY_GENERIC_TYPE[][] x, final KEY_COMPARATOR KEY_GENERIC comp) {
 quickSort(x, 0, BIG_ARRAYS.length(x), comp);
}
```

```
/** Sorts the specified range of elements according to the natural ascending order using quicksort.
```

```
*
```

```
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
```

```
* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
```

```
* 1249−1265, 1993.
```

```
*
```

```

* @param x the big array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public static KEY_GENERIC void quickSort(final KEY_GENERIC_TYPE[][] x, final long from, final long to) {
 final long len = to - from;

```

```

// Selection sort on smallest arrays

```

```

if (len < SMALL) {
 selectionSort(x, from, to);
 return;
}

```

```

// Choose a partition element, v

```

```

long m = from
+ len / 2; // Small arrays, middle element
if (len > SMALL) {
 long l = from;
 long n = to - 1;
 if (len > MEDIUM) { // Big arrays, pseudomedian of 9
 long s = len / 8;
 l = med3(x, l, l + s, l + 2 * s);
 m = med3(x, m - s, m, m + s);
 n = med3(x, n - 2 * s, n - s, n);
 }
 m = med3(x, l, m, n); // Mid-size, med of 3
}

```

```

final KEY_GENERIC_TYPE v = get(x, m);

```

```

// Establish Invariant: v* (<v)* (>v)* v*

```

```

long a = from, b = a, c = to - 1, d = c;
while(true) {
 int comparison;
 while (b <= c && (comparison = KEY_CMP(get(x, b), v) <= 0) {
 if (comparison == 0) swap(x, a++, b);
 b++;
 }
 while (c >= b && (comparison = KEY_CMP(get(x, c), v) >= 0) {
 if (comparison == 0) swap(x, c, d--);
 c--;
 }
 if (b > c) break;
 swap(x, b++, c--);
}

```

```

// Swap partition elements back to middle
long s, n = to;
s = Math.min(a - from, b - a);
vecSwap(x, from, b - s, s);
s = Math.min(d - c, n
- d - 1);
vecSwap(x, b, n - s, s);

// Recursively sort non-partition-elements
if ((s = b - a) > 1) quickSort(x, from, from + s);
if ((s = d - c) > 1) quickSort(x, n - s, n);

}

/** Sorts the specified big array according to the natural ascending order using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * @param x the big array to be sorted.
 */

public static KEY_GENERIC void quickSort(final KEY_GENERIC_TYPE[][] x) {
 quickSort(x, 0, BIG_ARRAYS.length(x));
}

#if ! #keyclass(Boolean)

/**
 * Searches a range of the specified big array for the specified value using
 * the binary search algorithm. The range must be sorted prior to making this call.
 * If it is not sorted, the results are undefined. If the range contains multiple elements
 * with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the big array to be searched.
 * @param from the index of the first element (inclusive) to be searched.
 * @param to the index of the last element (exclusive) to be searched.
 * @param key the value to be searched for.
 * @return index of the search key, if it is contained in the big array;
 * otherwise, <tt>(-(<i>insertion point</i>) - 1)</tt>. The <i>insertion
 * point</i> is defined as the the point at which the value would
 * be inserted into the big array: the index of the first

```

```

* element greater than the key, or the length of the big array, if all
* elements in the big array are less than the specified key. Note
* that this guarantees that the return value will be >= 0 if
* and only if the key is found.
* @see java.util.Arrays
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static
KEY_GENERIC long binarySearch(final KEY_GENERIC_TYPE[][] a, long from, long to, final
KEY_GENERIC_TYPE key) {
 KEY_GENERIC_TYPE midVal;
 to--;
 while (from <= to) {
 final long mid = (from + to) >>> 1;
 midVal = get(a, mid);
#ifdef keys(primitive)
 if (midVal < key) from = mid + 1;
 else if (midVal > key) to = mid - 1;
 else return mid;
#else
 final int cmp = ((Comparable KEY_SUPER_GENERIC)midVal).compareTo(key);
 if (cmp < 0) from = mid + 1;
 else if (cmp > 0) to = mid - 1;
 else return mid;
#endif
 }
 return -(from + 1);
}

/**
 * Searches a big array for the specified value using
 * the binary search algorithm. The range must be sorted prior to making this call.
 * If it is not sorted, the results are undefined. If the range contains multiple elements with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the big array to be searched.
 * @param key the value to be searched for.
 * @return index of
the search key, if it is contained in the big array;
* otherwise, $-(\langle i \rangle \text{insertion point} \langle i \rangle - 1)$. The $\langle i \rangle$ insertion
* point is defined as the the point at which the value would
* be inserted into the big array: the index of the first
* element greater than the key, or the length of the big array, if all
* elements in the big array are less than the specified key. Note
* that this guarantees that the return value will be >= 0 if
* and only if the key is found.
 * @see java.util.Arrays
 */

```

```

public static KEY_GENERIC long binarySearch(final KEY_GENERIC_TYPE[][] a, final KEY_TYPE key) {
 return binarySearch(a, 0, BIG_ARRAYS.length(a), key);
}

/**
 * Searches a range of the specified big array for the specified value using
 * the binary search algorithm and a specified comparator. The range must be sorted following the comparator prior
to making this call.
 *
 * If it is not sorted, the results are undefined. If the range contains multiple elements with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the big array to be searched.
 * @param from the index of the first element (inclusive) to be searched.
 * @param to the index of the last element (exclusive) to be searched.
 * @param key the value to be searched for.
 * @param c a comparator.
 * @return index of the search key, if it is contained in the big array;
 * otherwise, <tt>-(<i>insertion point</i> - 1)</tt>. The <i>insertion
 * point</i> is defined as the the point at which the value would
 * be inserted into the big array: the index of the first
 * element greater than the key, or the length of the big array, if all
 * elements in the big array are less than the specified key. Note
 * that this guarantees that the return value will be >= 0 if
 *
 * and only if the key is found.
 * @see java.util.Arrays
 */
public static KEY_GENERIC long binarySearch(final KEY_GENERIC_TYPE[][] a, long from, long to, final
KEY_GENERIC_TYPE key, final KEY_COMPARATOR KEY_GENERIC c) {
 KEY_GENERIC_TYPE midVal;
 to--;
 while (from <= to) {
 final long mid = (from + to) >>> 1;
 midVal = get(a, mid);
 final int cmp = c.compare(midVal, key);
 if (cmp < 0) from = mid + 1;
 else if (cmp > 0) to = mid - 1;
 else return mid; // key found
 }
 return -(from + 1);
}

/**
 * Searches a big array for the specified value using
 * the binary search algorithm and a specified comparator. The range must be sorted following the comparator prior
to making this call.
 *
 * If it is not sorted, the results are undefined. If the range contains multiple elements with

```



```

* the specified value, there is no guarantee which one will be found.
*
* @param a the big array to be searched.
* @param key the value to be searched for.
* @param
c a comparator.
* @return index of the search key, if it is contained in the big array;
* otherwise, <tt>-(<i>insertion point</i> - 1)</tt>. The <i>insertion
* point</i> is defined as the the point at which the value would
* be inserted into the big array: the index of the first
* element greater than the key, or the length of the big array, if all
* elements in the big array are less than the specified key. Note
* that this guarantees that the return value will be >= 0 if
* and only if the key is found.
* @see java.util.Arrays
*/
public static KEY_GENERIC long binarySearch(final KEY_GENERIC_TYPE[][] a, final KEY_GENERIC_TYPE
key, final KEY_COMPARATOR KEY_GENERIC c) {
 return binarySearch(a, 0, BIG_ARRAYS.length(a), key, c);
}

#if #keys(primitive)
/** The size of a digit used during radix sort (must be a power of 2). */
private static final int DIGIT_BITS = 8;
/**
The mask to extract a digit of { @link #DIGIT_BITS } bits. */
private static final int DIGIT_MASK = (1 << DIGIT_BITS) - 1;
/** The number of digits per element. */
private static final int DIGITS_PER_ELEMENT = KEY_CLASS.SIZE / DIGIT_BITS;

/** This method fixes negative numbers so that the combination exponent/significand is lexicographically sorted. */
#if #keyclass(Double)
private static final long fixDouble(final double d) {
 final long l = Double.doubleToRawLongBits(d);
 return l >= 0 ? l : l ^ 0x7FFFFFFFFFFFFFFFL;
}
#elif #keyclass(Float)
private static final long fixFloat(final float f) {
 final long i = Float.floatToRawIntBits(f);
 return i >= 0 ? i : i ^ 0x7FFFFFFF;
}
#endif

/** Sorts the specified big array using radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas

```

\* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993),

\* and further improved using the digit-oracle idea described by

\* Juha K&auml;rkk&auml;inen and Tommi Rantala in &ldquo;Engineering radix sort for strings&rdquo;,,

\* <i>String Processing and Information Retrieval, 15th International Symposium</i>, volume 5280 of

\* Lecture Notes in Computer Science, pages 3&minus;14, Springer (2008).

\*

\* <p>This implementation is significantly faster than quicksort

\* already at small sizes (say, more than 10000 elements), but it can only

\* sort in ascending order.

\* It will allocate a support array of bytes with the same number of elements as the array to be sorted.

\*

\* @param a the big array to be sorted.

\*/

```
public static void radixSort(final KEY_TYPE[][] a) {
 radixSort(a, 0, BIG_ARRAYS.length(a));
}
```

```
/** Sorts the specified big array using radix sort.
```

```
*
```

```
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
```

```
* McIlroy, “Engineering radix sort”,,
```

```
<i>Computing Systems</i>, 6(1), pages 5−27 (1993),
```

```
* and further improved using the digit-oracle idea described by
```

```
* Juha Kärkkäinen and Tommi Rantala in “Engineering radix sort for strings”,,
```

```
* <i>String Processing and Information Retrieval, 15th International Symposium</i>, volume 5280 of
```

```
* Lecture Notes in Computer Science, pages 3−14, Springer (2008).
```

```
*
```

```
* <p>This implementation is significantly faster than quicksort
```

```
* already at small sizes (say, more than 10000 elements), but it can only
```

```
* sort in ascending order.
```

```
* It will allocate a support array of bytes with the same number of elements as the array to be sorted.
```

```
*
```

```
* @param a the big array to be sorted.
```

```
* @param from the index of the first element (inclusive) to be sorted.
```

```
* @param to the index of the last element (exclusive) to be sorted.
```

```
*/
```

```
public static void radixSort(final KEY_TYPE[][] a, final long from, final long to) {
 final int maxLevel = DIGITS_PER_ELEMENT
- 1;
```

```
 final int stackSize = ((1 << DIGIT_BITS) - 1) * (DIGITS_PER_ELEMENT - 1) + 1;
```

```
 final long[] offsetStack = new long[stackSize];
```

```
 int offsetPos = 0;
```

```
 final long[] lengthStack = new long[stackSize];
```

```
 int lengthPos = 0;
```

```
 final int[] levelStack = new int[stackSize];
```

```
 int levelPos = 0;
```

```

offsetStack[offsetPos++] = from;
lengthStack[lengthPos++] = to - from;
levelStack[levelPos++] = 0;

final long[] count = new long[1 << DIGIT_BITS];
final long[] pos = new long[1 << DIGIT_BITS];
final byte[][] digit = ByteBigArrays.newBigArray(to - from);

while(offsetPos > 0) {
 final long first = offsetStack[--offsetPos];
 final long length = lengthStack[--lengthPos];
 final int level = levelStack[--levelPos];
 #if #keyclass(Character)
 final int signMask = 0;
 #else
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 #endif

 if (length < MEDIUM) {
 selectionSort(a, first, first + length);
 continue;
 }

 final
int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the shift
that extract the right byte from a key

 // Count keys.

 for(long i = length; i-- != 0;) ByteBigArrays.set(digit, i, (byte)(((KEY2LEXINT(BIG_ARRAYS.get(a, first + i
)) >>> shift) & DIGIT_MASK) ^ signMask));
 for(long i = length; i-- != 0;) count[ByteBigArrays.get(digit, i) & 0xFF]++;
 // Compute cumulative distribution and push non-singleton keys on stack.
 int lastUsed = -1;

 long p = 0;
 for(int i = 0; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) {
 lastUsed = i;
 if (level < maxLevel && count[i] > 1){
 //System.err.println(" Pushing " + new StackEntry(first + pos[i - 1], first + pos[i], level + 1));
 offsetStack[offsetPos++] = p + first;
 lengthStack[lengthPos++] = count[i];
 levelStack[levelPos++] = level + 1;
 }
 }
 pos[i] = (p += count[i]

```

```

);
}

// When all slots are OK, the last slot is necessarily OK.
final long end = length - count[lastUsed];
count[lastUsed] = 0;

// i moves through the start of each block
int c = -1;
for(long i = 0, d; i < end; i += count[c], count[c] = 0) {
 KEY_TYPE t = BIG_ARRAYS.get(a, i + first);
 c = ByteBigArrays.get(digit, i) & 0xFF;
 while((d = --pos[c]) > i) {
 final KEY_TYPE z = t;
 final int zz = c;
 t = BIG_ARRAYS.get(a, d + first);
 c = ByteBigArrays.get(digit, d) & 0xFF;
 BIG_ARRAYS.set(a, d + first, z);
 ByteBigArrays.set(digit, d, (byte)zz);
 }

 BIG_ARRAYS.set(a, i + first, t);
}
}
}

private static void selectionSort(final KEY_TYPE[][] a, final KEY_TYPE[][] b, final long from, final long to) {
 for(long i = from; i < to - 1; i++) {
 long m = i;
 for(long j = i + 1; j < to; j++)
 if (KEY_LESS(BIG_ARRAYS.get(a, j), BIG_ARRAYS.get(a, m)) || KEY_CMP_EQ(BIG_ARRAYS.get(
a, j), BIG_ARRAYS.get(a, m)) && KEY_LESS(BIG_ARRAYS.get(b, j), BIG_ARRAYS.get(b, m))) m = j;

 if (m != i) {
 KEY_TYPE t = BIG_ARRAYS.get(a, i);
 BIG_ARRAYS.set(a, i, BIG_ARRAYS.get(a, m));
 BIG_ARRAYS.set(a, m, t);
 t = BIG_ARRAYS.get(b, i);
 BIG_ARRAYS.set(b, i, BIG_ARRAYS.get(b, m));
 BIG_ARRAYS.set(b, m, t);
 }
 }
}

/** Sorts the specified pair of big arrays lexicographically using radix sort.
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993),

```

```

* and further improved using the digit-oracle idea described by
* Juha Kärkkäinen and Tommi Rantala in “Engineering radix sort for strings”,
* <i>String Processing and Information Retrieval, 15th International Symposium</i>, volume 5280 of
* Lecture Notes in Computer Science, pages 3−14,
Springer (2008).
*
* <p>This method implements a lexicographical sorting of the arguments. Pairs of elements
* in the same position in the two provided arrays will be considered a single key, and permuted
* accordingly. In the end, either <code>a[i] < a[i + 1]</code> or <code>a[i] == a[i + 1]</code> and
<code>b[i] <= b[i + 1]</code>.
*
* <p>This implementation is significantly faster than quicksort
* already at small sizes (say, more than 10000 elements), but it can only
* sort in ascending order. It will allocate a support array of bytes with the same number of elements as the arrays to
be sorted.
*
* @param a the first big array to be sorted.
* @param b the second big array to be sorted.
*/

public static void radixSort(final KEY_TYPE[][] a, final KEY_TYPE[][] b) {
 radixSort(a, b, 0, BIG_ARRAYS.length(a));
}

/** Sorts the specified pair of big arrays lexicographically using radix sort.
*
* <p>The sorting algorithm
is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993),
* and further improved using the digit-oracle idea described by
* Juha Kärkkäinen and Tommi Rantala in “Engineering radix sort for strings”,
* <i>String Processing and Information Retrieval, 15th International Symposium</i>, volume 5280 of
* Lecture Notes in Computer Science, pages 3−14, Springer (2008).
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* in the same position in the two provided arrays will be considered a single key, and permuted
* accordingly. In the end, either <code>a[i] < a[i + 1]</code> or <code>a[i] == a[i + 1]</code> and
<code>b[i] <= b[i + 1]</code>.
*
* <p>This implementation is significantly faster than quicksort
* already at small sizes (say, more
than 10000 elements), but it can only
* sort in ascending order. It will allocate a support array of bytes with the same number of elements as the arrays to
be sorted.
*
* @param a the first big array to be sorted.
* @param b the second big array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.

```

```

* @param to the index of the last element (exclusive) to be sorted.
*/
public static void radixSort(final KEY_TYPE[][] a, final KEY_TYPE[][] b, final long from, final long to) {
 final int layers = 2;
 if (BIG_ARRAYS.length(a) != BIG_ARRAYS.length(b)) throw new IllegalArgumentException("Array size
mismatch.");
 final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;

 final int stackSize = ((1 << DIGIT_BITS) - 1) * (layers * DIGITS_PER_ELEMENT - 1) + 1;
 final long[] offsetStack = new long[stackSize];
 int offsetPos = 0;
 final long[] lengthStack = new long[stackSize];
 int lengthPos = 0;
 final int[] levelStack =
new int[stackSize];
 int levelPos = 0;

 offsetStack[offsetPos++] = from;
 lengthStack[lengthPos++] = to - from;
 levelStack[levelPos++] = 0;

 final long[] count = new long[1 << DIGIT_BITS];
 final long[] pos = new long[1 << DIGIT_BITS];
 final byte[][] digit = ByteBigArrays.newBigArray(to - from);

 while(offsetPos > 0) {
 final long first = offsetStack[--offsetPos];
 final long length = lengthStack[--lengthPos];
 final int level = levelStack[--levelPos];
 #if #keyclass(Character)
 final int signMask = 0;
 #else
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 #endif

 if (length < MEDIUM) {
 selectionSort(a, b, first, first + length);
 continue;
 }

 final KEY_TYPE[][] k = level < DIGITS_PER_ELEMENT ? a : b; // This is the key array
 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

 // Count
 keys.
 for(long i = length; i-- != 0;) ByteBigArrays.set(digit, i, (byte)(((KEY2LEXINT(BIG_ARRAYS.get(k, first + i
)) >>> shift) & DIGIT_MASK) ^ signMask));

```

```

for(long i = length; i-- != 0;) count[ByteBigArrays.get(digit, i) & 0xFF]++;
// Compute cumulative distribution and push non-singleton keys on stack.
int lastUsed = -1;

long p = 0;
for(int i = 0; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) {
 lastUsed = i;
 if (level < maxLevel && count[i] > 1){
 offsetStack[offsetPos++] = p + first;
 lengthStack[lengthPos++] = count[i];
 levelStack[levelPos++] = level + 1;
 }
 }
 pos[i] = (p += count[i]);
}

// When all slots are OK, the last slot is necessarily OK.
final long end = length - count[lastUsed];
count[lastUsed] = 0;

// i moves through the start of each block
int c = -1;
for(long i = 0, d; i < end; i += count[c], count[c] = 0) {
 KEY_TYPE t = BIG_ARRAYS.get(
a, i + first);
 KEY_TYPE u = BIG_ARRAYS.get(b, i + first);
 c = ByteBigArrays.get(digit, i) & 0xFF;
 while((d = --pos[c]) > i) {
 KEY_TYPE z = t;
 final int zz = c;
 t = BIG_ARRAYS.get(a, d + first);
 BIG_ARRAYS.set(a, d + first, z);
 z = u;
 u = BIG_ARRAYS.get(b, d + first);
 BIG_ARRAYS.set(b, d + first, z);
 c = ByteBigArrays.get(digit, d) & 0xFF;
 ByteBigArrays.set(digit, d, (byte)zz);
 }

 BIG_ARRAYS.set(a, i + first, t);
 BIG_ARRAYS.set(b, i + first, u);
}
}
}

#endif

```

```

#endif

/** Shuffles the specified big array fragment using the specified pseudorandom number generator.
 *
 * @param a the big array to be shuffled.
 * @param from the index of the first element (inclusive) to be shuffled.
 * @param to the index of the last element (exclusive) to be shuffled.
 * @param random a pseudorandom number generator (please use a XorShift*
generator).
 * @return <code>a</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[][] shuffle(final KEY_GENERIC_TYPE[][] a, final long
from, final long to, final Random random) {
 for(long i = to - from; i-- != 0;) {
 final long p = (random.nextLong() & 0x7FFFFFFFFFFFFFFFL) % (i + 1);
 final KEY_GENERIC_TYPE t = get(a, from + i);
 set(a, from + i, get(a, from + p));
 set(a, from + p, t);
 }
 return a;
}

/** Shuffles the specified big array using the specified pseudorandom number generator.
 *
 * @param a the big array to be shuffled.
 * @param random a pseudorandom number generator (please use a XorShift* generator).
 * @return <code>a</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[][] shuffle(final KEY_GENERIC_TYPE[][] a, final
Random random) {
 for(long i = length(a); i-- != 0;) {
 final
long p = (random.nextLong() & 0x7FFFFFFFFFFFFFFFL) % (i + 1);
 final KEY_GENERIC_TYPE t = get(a, i);
 set(a, i, get(a, p));
 set(a, p, t);
 }
 return a;
}

#if #keyclass(Integer)
#ifdef TEST

private static long seed = System.currentTimeMillis());

```



```

private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
 return r.NEXT_KEY();
#elif #keyclass(Object)
 return Integer.toBinaryString(r.nextInt());
#else
 return new java.io.Serializable() {};
#endif
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static BIG_ARRAY_BIG_LIST topList;

protected static void speedTest(int n, boolean b) {}

protected static void test(int n) {
 KEY_TYPE[][] a = BIG_ARRAYS.newBigArray(n);
 for(int i = 0; i < n; i++) set(a, i, i);
 BIG_ARRAYS.copy(
a, 0, a, 1, n - 2);
 assert a[0][0] == 0;
 for(int i = 0; i < n - 2; i++) assert get(a, i + 1) == i;

 for(int i = 0; i < n; i++) set(a, i, i);
 BIG_ARRAYS.copy(a, 1, a, 0, n - 1);
 for(int i = 0; i < n - 1; i++) assert get(a, i) == i + 1;

 for(int i = 0; i < n; i++) set(a, i, i);
 KEY_TYPE[] b = new KEY_TYPE[n];
 for(int i = 0; i < n; i++) b[i] = i;

 assert equals(wrap(b), a);

 System.out.println("Test OK");
 return;
}

public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));
}

```

```

try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
} catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
}
}

#endif
#endif

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigArrays.drv

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

```

/*
 * Copyright (C) 2002-2015 Sebastiano Vigna
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package PACKAGE;
```

```
import java.util.ListIterator;
```

```

/** A type-specific bidirectional iterator that is also a {@link ListIterator}.
 *
 * <P>This interface merges the methods provided by a {@link ListIterator} and
 * a type-specific {@link it.unimi.dsi.fastutil.BidirectionalIterator}. Moreover, it provides
 * type-specific
 * versions of {@link java.util.ListIterator#add(Object) add()}
 * and {@link java.util.ListIterator#set(Object) set()}.
 */

```

```
* @see java.util.ListIterator
* @see it.unimi.dsi.fastutil.BidirectionalIterator
*/
```

```
public interface KEY_LIST_ITERATOR KEY_GENERIC extends ListIterator<KEY_GENERIC_CLASS>,
KEY_BIDI_ITERATOR KEY_GENERIC {
```

```
 #if #keys(primitive)
 void set(KEY_TYPE k);
 void add(KEY_TYPE k);
 #endif

}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ListIterator.drv
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright (C) 2003-2015 Paolo Boldi and Sebastiano Vigna
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* http://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package PACKAGE;
```

```
 #if #keyclass(Object)
 import java.util.Comparator;
 #endif
```

```
import it.unimi.dsi.fastutil.ints.IntArrays;
```

```
/** A class providing static methods and objects that do useful things with semi-indirect heaps.
*
* <P>A semi-indirect heap is based on a reference array. Elements
of
* a semi-indirect heap are integers that index the reference array (note that
```

```

* in an indirect heap you can also map elements of the reference
* array to heap positions).
*/

```

```

public class SEMI_INDIRECT_HEAPS {

```

```

 private SEMI_INDIRECT_HEAPS() {}

```

```

 /** Moves the given element down into the semi-indirect heap until it reaches the lowest possible position.

```

```

 *

```

```

 * @param refArray the reference array.

```

```

 * @param heap the semi-indirect heap (starting at 0).

```

```

 * @param size the number of elements in the heap.

```

```

 * @param i the index in the heap of the element to be moved down.

```

```

 * @param c a type-specific comparator, or <code>null</code> for the natural order.

```

```

 * @return the new position in the heap of the element of heap index <code>i</code>.

```

```

 */

```

```

 SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

 public static KEY_GENERIC int downHeap(final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int
size, int i, final KEY_COMPARATOR KEY_GENERIC c) {
 assert i < size;

```

```

 final int e = heap[

```

```

i];

```

```

 final KEY_GENERIC_TYPE E = refArray[e];

```

```

 int child;

```

```

 if (c == null)

```

```

 while ((child = (i << 1) + 1) < size) {

```

```

 int t = heap[child];

```

```

 final int right = child + 1;

```

```

 if (right < size && KEY_LESS(refArray[heap[right]], refArray[t])) t = heap[child = right];

```

```

 if (KEY_LESSEQ(E, refArray[t])) break;

```

```

 heap[i] = t;

```

```

 i = child;

```

```

 }

```

```

 else

```

```

 while ((child = (i << 1) + 1) < size) {

```

```

 int t = heap[child];

```

```

 final int right = child + 1;

```

```

 if (right < size && c.compare(refArray[heap[right]], refArray[t]) < 0) t = heap[child = right];

```

```

 if (c.compare(E, refArray[t]) <= 0) break;

```

```

 heap[i] = t;

```

```

 i = child;

```

```

 }

```

```

 heap[i] = e;

```

```

return i;
}

/** Moves the given element up in the semi-indirect heap until it reaches the highest possible position.
 *
 * @param refArray the reference array.
 * @param heap the semi-indirect heap (starting at 0).
 * @param size the number of elements in the heap.

 * @param i the index in the heap of the element to be moved up.
 * @param c a type-specific comparator, or <code>null</code> for the natural order.
 * @return the new position in the heap of the element of heap index <code>i</code>.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC int upHeap(final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int size,
int i, final KEY_COMPARATOR KEY_GENERIC c) {
 assert i < size;

 final int e = heap[i];
 final KEY_GENERIC_TYPE E = refArray[e];

 if (c == null)
 while (i != 0) {
 final int parent = (i - 1) >>> 1;
 final int t = heap[parent];
 if (KEY_LESSEQ(refArray[t], E)) break;
 heap[i] = t;
 i = parent;
 }
 else
 while (i != 0) {
 final int parent = (i - 1) >>> 1;
 final int t = heap[parent];
 if (c.compare(refArray[t], E) <= 0) break;
 heap[i] = t;
 i = parent;
 }

 heap[i] = e;

 return i;
}

/** Creates a semi-indirect heap in the
given array.
 *

```

```

* @param refArray the reference array.
* @param offset the first element of the reference array to be put in the heap.
* @param length the number of elements to be put in the heap.
* @param heap the array where the heap is to be created.
* @param c a type-specific comparator, or <code>null</code> for the natural order.
*/

public static KEY_GENERIC void makeHeap(final KEY_GENERIC_TYPE[] refArray, final int offset, final int
length, final int[] heap, final KEY_COMPARATOR KEY_GENERIC c) {
 ARRAYS.ensureOffsetLength(refArray, offset, length);
 if (heap.length < length) throw new IllegalArgumentException("The heap length (" + heap.length + ") is smaller
than the number of elements (" + length + ")");

 int i = length;
 while(i-- != 0) heap[i] = offset + i;

 i = length >>> 1;
 while(i-- != 0) downHeap(refArray, heap, length, i, c);
}

/** Creates a semi-indirect heap, allocating its heap array.
*
* @param refArray the reference array.
*
* @param offset the first element of the reference array to be put in the heap.
* @param length the number of elements to be put in the heap.
* @param c a type-specific comparator, or <code>null</code> for the natural order.
* @return the heap array.
*/

public static KEY_GENERIC int[] makeHeap(final KEY_GENERIC_TYPE[] refArray, final int offset, final int
length, final KEY_COMPARATOR KEY_GENERIC c) {
 final int[] heap = length <= 0 ? IntArrays.EMPTY_ARRAY : new int[length];
 makeHeap(refArray, offset, length, heap, c);
 return heap;
}

/** Creates a semi-indirect heap from a given index array.
*
* @param refArray the reference array.
* @param heap an array containing indices into <code>refArray</code>.
* @param size the number of elements in the heap.
* @param c a type-specific comparator, or <code>null</code> for the natural order.
*/

public static KEY_GENERIC void makeHeap(final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int

```

```

size,
final KEY_COMPARATOR KEY_GENERIC c) {
 int i = size >>> 1;
 while(i-- != 0) downHeap(refArray, heap, size, i, c);
}

/** Retrieves the front of a heap in a given array.
 *
 * <p>The front of a semi-indirect heap is the set of indices whose associated elements in the reference
array
 * are equal to the element associated to the first index.
 *
 * <p>In several circumstances you need to know the front, and scanning linearly the entire heap is not
 * the best strategy. This method simulates (using a partial linear scan) a breadth-first visit that
 * terminates when all visited nodes are larger than the element associated
 * to the top index, which implies that no elements of the front can be found later.
 * In most cases this trick yields a significant improvement.
 *
 * @param refArray the reference array.
 * @param heap an array containing indices into <code>refArray</code>.
 * @param size the number of elements in the heap.
 * @param a an array large
enough to hold the front (e.g., at least long as <code>refArray</code>).
 * @return the number of elements actually written (starting from the first position of <code>a</code>).
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC int front(final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int size, final
int[] a) {
 final KEY_GENERIC_TYPE top = refArray[heap[0]];
 int j = 0, // The current position in a
 l = 0, // The first position to visit in the next level (inclusive)
 r = 1, // The last position to visit in the next level (exclusive)
 f = 0; // The first position (in the heap array) of the next level
 for(int i = 0; i < r; i++) {
 if (i == f) { // New level
 if (l >= r) break; // If we are crossing the two bounds, we're over
 f = (f << 1) + 1; // Update the first position of the next level...
 i = l; // ...and jump directly to position l
 l = -1; // Invalidate l
 }
 if (KEY_CMP_EQ(top, refArray[heap[i]])) {
 a[
j++] = heap[i];
 if (l == -1) l = i * 2 + 1; // If this is the first time in this level, set l
 r = Math.min(size, i * 2 + 3); // Update r, but do not go beyond size
 }
 }
}

```

```

return j;
}

/** Retrieves the front of a heap in a given array using a given comparator.
 *
 * <p>The front of a semi-indirect heap is the set of indices whose associated elements in the reference
array
 * are equal to the element associated to the first index.
 *
 * <p>In several circumstances you need to know the front, and scanning linearly the entire heap is not
 * the best strategy. This method simulates (using a partial linear scan) a breadth-first visit that
 * terminates when all visited nodes are larger than the element associated
 * to the top index, which implies that no elements of the front can be found later.
 * In most cases this trick yields a significant improvement.
 *
 * @param refArray the reference array.
 * @param heap an array containing indices
into <code>refArray</code>.
 * @param size the number of elements in the heap.
 * @param a an array large enough to hold the front (e.g., at least long as <code>refArray</code>).
 * @param c a type-specific comparator.
 * @return the number of elements actually written (starting from the first position of <code>a</code>).
 */
public static KEY_GENERIC int front(final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int size, final
int[] a, final KEY_COMPARATOR KEY_GENERIC c) {
 final KEY_GENERIC_TYPE top = refArray[heap[0]];
 int j = 0, // The current position in a
 l = 0, // The first position to visit in the next level (inclusive)
 r = 1, // The last position to visit in the next level (exclusive)
 f = 0; // The first position (in the heap array) of the next level
 for(int i = 0; i < r; i++) {
 if (i == f) { // New level
 if (l >= r) break; // If we are crossing the two bounds, we're over
 f = (f << 1) + 1; // Update the first position of the
next level...
 i = l; // ...and jump directly to position l
 l = -1; // Invalidate l
 }
 if (c.compare(top, refArray[heap[i]]) == 0) {
 a[j++] = heap[i];
 if (l == -1) l = i * 2 + 1; // If this is the first time in this level, set l
 r = Math.min(size, i * 2 + 3); // Update r, but do not go beyond size
 }
 }

 return j;
}
}

```



Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SemiIndirectHeaps.drv

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\*/

package PACKAGE;

#if #keyclass(Object)

import java.util.Arrays;

import java.util.Comparator;

import it.unimi.dsi.fastutil.AbstractPriorityQueue;

#endif

import java.io.Serializable;

import it.unimi.dsi.fastutil.HashCommon;

import java.util.NoSuchElementException;

/\*\* A type-specific array-based FIFO queue, supporting

also deque operations.

\*

\* <P>Instances of this class represent a FIFO queue using a backing

\* array in a circular way. The array is enlarged and shrunk as needed. You can use the { @link #trim()} method

\* to reduce its memory usage, if necessary.

\*

\* <P>This class provides additional methods that implement a <em>deque</em> (double-ended queue).

\*/

public class ARRAY\_FIFO\_QUEUE KEY\_GENERIC extends ABSTRACT\_PRIORITY\_QUEUE

KEY\_GENERIC implements Serializable {

```

private static final long serialVersionUID = 0L;

/** The standard initial capacity of a queue. */
public final static int INITIAL_CAPACITY = 4;

/** The backing array. */
protected transient KEY_GENERIC_TYPE array[];

/** The current (cached) length of { @link #array }. */
protected transient int length;

/** The start position in { @link #array }. It is always strictly smaller than { @link #length}.*/
protected transient int start;

/** The end position in { @link #array }. It is always strictly smaller than
{ @link #length}.
* Might be actually smaller than { @link #start} because { @link #array} is used cyclically. */
protected transient int end;

/** Creates a new empty queue with given capacity.
*
* @param capacity the initial capacity of this queue.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public ARRAY_FIFO_QUEUE(final int capacity) {
 if (capacity < 0) throw new IllegalArgumentException("Initial capacity (" + capacity + ") is negative");
 array = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[Math.max(1, capacity)]; // Never build a queue with
zero-sized backing array.
 length = array.length;
}

/** Creates a new empty queue with standard { @linkplain #INITIAL_CAPACITY initial capacity }.
*/
public ARRAY_FIFO_QUEUE() {
 this(INITIAL_CAPACITY);
}

/** Returns <code>null</code> (FIFO queues have no comparator).
* @return <code>null</code>.
*/
@Override
public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
 return null;
}

@Override
public KEY_GENERIC_TYPE

```

```

DEQUEUE() {
 if (start == end) throw new NoSuchElementException();
 final KEY_GENERIC_TYPE t = array[start];
#if #keys(reference)
 array[start] = null; // Clean-up for the garbage collector.
#endif
 if (++start == length) start = 0;
 reduce();
 return t;
}

/** Dequeues the last element from the queue.
 *
 * @return the dequeued element.
 * @throws NoSuchElementException if the queue is empty.
 */
public KEY_GENERIC_TYPE DEQUEUE_LAST() {
 if (start == end) throw new NoSuchElementException();
 if (end == 0) end = length;
 final KEY_GENERIC_TYPE t = array[--end];
#if #keys(reference)
 array[end] = null; // Clean-up for the garbage collector.
#endif
 reduce();
 return t;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private final void resize(final int size, final int newLength) {
 final KEY_GENERIC_TYPE[] newArray = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[newLength];
 if (start >= end) {
 if (size != 0) {
 System.arraycopy(array, start, newArray, 0,
length - start);
 System.arraycopy(array, 0, newArray, length - start, end);
 }
 }
 else System.arraycopy(array, start, newArray, 0, end - start);
 start = 0;
 end = size;
 array = newArray;
 length = newLength;
}

private final void expand() {
 resize(length, (int)Math.min(it.unimi.dsi.fastutil.Arrays.MAX_ARRAY_SIZE, 2L * length));
}

```

```

private final void reduce() {
 final int size = size();
 if (length > INITIAL_CAPACITY && size <= length / 4) resize(size, length / 2);
}

@Override
public void enqueue(KEY_GENERIC_TYPE x) {
 array[end++] = x;
 if (end == length) end = 0;
 if (end == start) expand();
}

/** Enqueues a new element as the first element (in dequeuing order) of the queue.
 */
public void enqueueFirst(KEY_GENERIC_TYPE x) {
 if (start == 0) start = length;
 array[--start] = x;
 if (end == start) expand();
}

/** Returns the first element of the queue.
 * @return the first element of the queue.
 */
public KEY_GENERIC_TYPE
FIRST() {
 if (start == end) throw new NoSuchElementException();
 return array[start];
}

/** Returns the last element of the queue.
 * @return the last element of the queue.
 */
public KEY_GENERIC_TYPE LAST() {
 if (start == end) throw new NoSuchElementException();
 return array[(end == 0 ? length : end) - 1];
}

@Override
public void clear() {
#if #keys(reference)
 if (start <= end) Arrays.fill(array, start, end, null);
 else {
 Arrays.fill(array, start, length, null);
 Arrays.fill(array, 0, end, null);
 }
#endif
 start = end = 0;
}

```

```

}

/** Trims the queue to the smallest possible size. */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public void trim() {
 final int size = size();
 final KEY_GENERIC_TYPE[] newArray =
#if #keys(primitive)
 new KEY_GENERIC_TYPE[size + 1];
#else
 (KEY_GENERIC_TYPE[])new Object[size + 1];
#endif
 if (start <= end) System.arraycopy(array, start, newArray, 0, end - start);
 else {
 System.arraycopy(
array, start, newArray, 0, length - start);
 System.arraycopy(array, 0, newArray, length - start, end);
 }
 start = 0;
 length = (end = size) + 1;
 array = newArray;
}

@Override
public int size() {
 final int apparentLength = end - start;
 return apparentLength >= 0 ? apparentLength : length + apparentLength;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 s.defaultWriteObject();
 int size = size();
 s.writeInt(size);
 for(int i = start; size-- != 0;) {
 s.WRITE_KEY(array[i++]);
 if (i == length) i = 0;
 }
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
 end = s.readInt();
 array = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[length = HashCommon.nextPowerOfTwo(end + 1)];
 for(int i = 0; i < end; i++) array[i] = KEY_GENERIC_CAST s.READ_KEY();
}
}

```

Found in path(s):

\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayFIFOQueue.drv

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\*/

package PACKAGE;

#if #keys(reference)

import java.util.Comparator;

#endif

/\*\* A class providing static methods and objects that do useful things with comparators.

\*/

public class COMPARATORS {

private COMPARATORS() {}

/\*\* A type-specific comparator mimicking the natural order. \*/

#if #keys(reference)

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED\_RAWTYPES

protected

static class NaturalImplicitComparator implements Comparator, java.io.Serializable {

#else

protected static class NaturalImplicitComparator extends KEY\_ABSTRACT\_COMPARATOR KEY\_GENERIC

implements java.io.Serializable {

#endif

private static final long serialVersionUID = 1L;

public final int compare( final KEY\_TYPE a, final KEY\_TYPE b ) {

#if #keys(primitive)

```

 return KEY_CMP(a, b);
#else
 return ((Comparable)a).compareTo(b);
#endif
}
private Object readResolve() { return NATURAL_COMPARATOR; }
};

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final KEY_COMPARATOR NATURAL_COMPARATOR = new NaturalImplicitComparator();

/** A type-specific comparator mimicking the opposite of the natural order. */
#if #keys(reference)
SUPPRESS_WARNINGS_KEY_UNCHECKED_RAWTYPES
protected static class OppositeImplicitComparator implements Comparator, java.io.Serializable {
#else
protected static class OppositeImplicitComparator
extends KEY_ABSTRACT_COMPARATOR KEY_GENERIC implements java.io.Serializable {
#endif
private static final long serialVersionUID = 1L;

public final int compare(final KEY_TYPE a, final KEY_TYPE b) {
#if #keys(primitive)
return - KEY_CMP(a, b);
#else
return ((Comparable)b).compareTo(a);
#endif
}
private Object readResolve() { return OPPOSITE_COMPARATOR; }
};

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final KEY_COMPARATOR OPPOSITE_COMPARATOR = new OppositeImplicitComparator();

#if #keys(reference)
protected static class OppositeComparator KEY_GENERIC implements Comparator KEY_GENERIC,
java.io.Serializable {
#else
protected static class OppositeComparator KEY_GENERIC extends KEY_ABSTRACT_COMPARATOR
KEY_GENERIC implements java.io.Serializable {
#endif
private static final long serialVersionUID = 1L;

private final KEY_COMPARATOR KEY_GENERIC comparator;

protected OppositeComparator(final KEY_COMPARATOR KEY_GENERIC c) {
comparator = c;

```

```

}

public
final int compare(final KEY_GENERIC_TYPE a, final KEY_GENERIC_TYPE b) {
 return comparator.compare(b, a);
}
};

/** Returns a comparator representing the opposite order of the given comparator.
 *
 * @param c a comparator.
 * @return a comparator representing the opposite order of <code>c</code>.
 */
public static KEY_GENERIC COMPARATOR KEY_GENERIC oppositeComparator(final
KEY_COMPARATOR KEY_GENERIC c) {
 return new OppositeComparator KEY_GENERIC (c);
}
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Comparators.drv  
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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```

package PACKAGE;

```

```

#if #keyclass(Object)
import java.util.Comparator;
#endif

```

```

/** A class providing static methods and objects that do useful things with heaps.
 *

```



```

* <P>The static methods of this class allow to treat arrays as 0-based heaps. They
* are used in the implementation of heap-based queues,
* but they may be also used
* directly.
*
*/

```

```

public class HEAPS {

```

```

 private HEAPS() {}

```

```

 /** Moves the given element down into the heap until it reaches the lowest possible position.

```

```

 *

```

```

 * @param heap the heap (starting at 0).

```

```

 * @param size the number of elements in the heap.

```

```

 * @param i the index of the element that must be moved down.

```

```

 * @param c a type-specific comparator, or <code>null</code> for the natural order.

```

```

 * @return the new position of the element of index <code>i</code>.

```

```

 */

```

```

 SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

 public static KEY_GENERIC int downHeap(final KEY_GENERIC_TYPE[] heap, final int size, int i, final
 KEY_COMPARATOR KEY_SUPER_GENERIC c) {

```

```

 assert i < size;

```

```

 final KEY_GENERIC_TYPE e = heap[i];

```

```

 int child;

```

```

 if (c == null)

```

```

 while ((child = (i << 1) + 1) < size) {

```

```

 KEY_GENERIC_TYPE t = heap[child];

```

```

 final int right = child + 1;

```

```

 if (right < size && KEY_LESS(heap[right], t)) t = heap[child = right];

```

```

 if (KEY_LESSEQ(

```

```

e, t)) break;

```

```

 heap[i] = t;

```

```

 i = child;

```

```

 }

```

```

 else

```

```

 while ((child = (i << 1) + 1) < size) {

```

```

 KEY_GENERIC_TYPE t = heap[child];

```

```

 final int right = child + 1;

```

```

 if (right < size && c.compare(heap[right], t) < 0) t = heap[child = right];

```

```

 if (c.compare(e, t) <= 0) break;

```

```

 heap[i] = t;

```

```

 i = child;

```

```

 }

```

```

heap[i] = e;

return i;
}

/** Moves the given element up in the heap until it reaches the highest possible position.
 *
 * @param heap the heap (starting at 0).
 * @param size the number of elements in the heap.
 * @param i the index of the element that must be moved up.
 * @param c a type-specific comparator, or <code>null</code> for the natural order.
 * @return the new position of the element of index <code>i</code>.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC int upHeap(final KEY_GENERIC_TYPE[] heap, final int size, int i, final
KEY_COMPARATOR KEY_GENERIC c) {
 assert i < size;

 final KEY_GENERIC_TYPE
e = heap[i];

 if (c == null)
 while (i != 0) {
 final int parent = (i - 1) >>> 1;
 final KEY_GENERIC_TYPE t = heap[parent];
 if (KEY_LESSEQ(t, e)) break;
 heap[i] = t;
 i = parent;
 }
 else
 while (i != 0) {
 final int parent = (i - 1) >>> 1;
 final KEY_GENERIC_TYPE t = heap[parent];
 if (c.compare(t, e) <= 0) break;
 heap[i] = t;
 i = parent;
 }

 heap[i] = e;

 return i;
}

/** Makes an array into a heap.
 *
 * @param heap the heap (starting at 0).
 * @param size the number of elements in the heap.

```

```
* @param c a type-specific comparator, or <code>null</code> for the natural order.
```

```
*/
```

```
public static KEY_GENERIC void makeHeap(final KEY_GENERIC_TYPE[] heap, final int size, final
KEY_COMPARATOR KEY_GENERIC c) {
 int i = size >>> 1;
 while(i-- != 0) downHeap(heap, size, i, c);
}
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Heaps.drv
```

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```
/*
```

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*
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```
* limitations under the License.
```

```
*/
```

```
package PACKAGE;
```

```
import java.util.Collection;
```

```
/** A type-specific {@link Collection}; provides some additional methods
```

```
* that use polymorphism to avoid (un)boxing.
```

```
*
```

```
* <P>Additionally, this class defines strengthens (again) {@link #iterator()} and defines
```

```
* a slightly different semantics for {@link #toArray(Object[])}.
*
```

```
* @see Collection
```

```
*/
```

```
public interface COLLECTION KEY_GENERIC extends Collection<KEY_GENERIC_CLASS>,
KEY_ITERABLE KEY_GENERIC {
```

```
/** Returns a type-specific iterator on the elements of this collection.
```

```

*
* <p>Note that this specification strengthens the one given in
* { @link java.lang.Iterable#iterator() }, which was already
* strengthened in the corresponding type-specific class,
* but was weakened by the fact that this interface extends { @link Collection }.
*
* @return a type-specific iterator on the elements of this collection.
*/
KEY_ITERATOR KEY_GENERIC iterator();

/** Returns a type-specific iterator on this elements of this collection.
*
* @see #iterator()
* @deprecated As of <code>fastutil</code> 5, replaced by { @link #iterator() }.
*/
@Deprecated
KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD();

/** Returns an containing the items of this collection;
* the runtime type of the returned array is that of the specified array.
*
* <p>Warning: Note that, contrarily to { @link Collection#toArray(Object[]) }, this
* methods just writes all elements of this collection: no special
* value will be added after the last one.
*
* @param a if this array is big enough, it will be used to store this collection.
* @return a primitive type array containing the items of this collection.
* @see Collection#toArray(Object[])
*/
<T> T[] toArray(T[] a);

#if #keys(primitive)

/**
* @see Collection#contains(Object)
*/
boolean contains(KEY_TYPE key);

/** Returns a primitive type array containing the items of this collection.
* @return a primitive type array containing the items of this collection.
* @see Collection#toArray()
*/
KEY_TYPE[] TO_KEY_ARRAY();

/** Returns a primitive type array containing the items of this collection.
*

```

```

* <p>Note that, contrarily to { @link Collection#toArray(Object[])}, this
* methods just writes all elements of this collection: no special
* value
will be added after the last one.
*
* @param a if this array is big enough, it will be used to store this collection.
* @return a primitive type array containing the items of this collection.
* @see Collection#toArray(Object[])
*/

```

```

KEY_TYPE[] TO_KEY_ARRAY(KEY_TYPE a[]);

```

```

/** Returns a primitive type array containing the items of this collection.
*
* <p>Note that, contrarily to { @link Collection#toArray(Object[])}, this
* methods just writes all elements of this collection: no special
* value will be added after the last one.
*
* @param a if this array is big enough, it will be used to store this collection.
* @return a primitive type array containing the items of this collection.
* @see Collection#toArray(Object[])
*/

```

```

KEY_TYPE[] toArray(KEY_TYPE a[]);

```

```

/**
* @see Collection#add(Object)
*/

```

```

boolean add(KEY_TYPE key);

```

```

/** Note that this method should be called { @link java.util.Collection#remove(Object) remove()}, but the clash
* with the
similarly named index-based method in the { @link java.util.List} interface
* forces us to use a distinguished name. For simplicity, the set interfaces reinstates
* <code>remove()</code>.
*
* @see Collection#remove(Object)
*/

```

```

boolean rem(KEY_TYPE key);

```

```

/**
* @see Collection#addAll(Collection)
*/

```

```

boolean addAll(COLLECTION c);

```

```

/**
* @see Collection#containsAll(Collection)
*/

```

```

boolean containsAll(COLLECTION c);

```

```
/**
 * @see Collection#removeAll(Collection)
 */
boolean removeAll(COLLECTION c);
```

```
/**
 * @see Collection#retainAll(Collection)
 */
boolean retainAll(COLLECTION c);
```

```
#endif
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Collection.drv
```

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 */
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.AbstractPriorityQueue;
```

```
/** An abstract class providing basic methods for priority queues implementing a type-specific interface.
 *
 */
```

```
public abstract class ABSTRACT_PRIORITY_QUEUE KEY_GENERIC extends
AbstractPriorityQueue<KEY_GENERIC_CLASS> implements java.io.Serializable,
PRIORITY_QUEUE KEY_GENERIC {
private static final long serialVersionUID = 1L;
```

```
/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public void enqueue(final KEY_GENERIC_CLASS x) { enqueue(x.KEY_VALUE()); }
```

```
/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS dequeue() { return KEY2OBJ(DEQUEUE()); }
```

```
/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS first() { return KEY2OBJ(FIRST()); }
```

```
/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS last() { return KEY2OBJ(LAST()); }
```

```
/** Throws an {@link UnsupportedOperationException}.
 */
public KEY_TYPE LAST() { throw new UnsupportedOperationException(); }
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractPriorityQueue.drv

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```
/*
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 */
```

```

package PACKAGE;

#if #keyclass(Object)
import java.util.Comparator;
#endif

import it.unimi.dsi.fastutil.ints.IntArrays;

import java.util.Arrays;
import java.util.NoSuchElementException;

/** A type-specific heap-based indirect priority queue.
 *
 * <P>Instances of this class use an additional inversion
 * array, of the same length of the reference array,
 * to keep track of the heap position containing a given element of the reference array. The priority queue is
 * represented using a heap. The heap is enlarged as needed, but it is never
 * shrunk. Use the { @link #trim()} method to reduce its size, if necessary.
 *
 * <P>This implementation does not allow one to enqueue several times the same index.
 */

public class HEAP_INDIRECT_PRIORITY_QUEUE KEY_GENERIC extends
HEAP_SEMI_INDIRECT_PRIORITY_QUEUE KEY_GENERIC {

 /** The inversion array. */
 protected final int inv[];

 /** Creates a new empty queue with a given capacity and comparator.
 *
 * @param refArray the reference array.
 * @param capacity the initial capacity of this queue.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
 public HEAP_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray, int capacity,
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 super(
 refArray, capacity, c);
 if (capacity > 0) this.heap = new int[capacity];

 this.c = c;

 this.inv = new int[refArray.length];
 Arrays.fill(inv, -1);
 }

 /** Creates a new empty queue with a given capacity and using the natural order.
 *

```



```

* @param refArray the reference array.
* @param capacity the initial capacity of this queue.
*/
public HEAP_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray, int capacity) {
 this(refArray, capacity, null);
}

/** Creates a new empty queue with capacity equal to the length of the reference array and a given comparator.
*
* @param refArray the reference array.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray, KEY_COMPARATOR
KEY_SUPER_GENERIC c) {
 this(refArray, refArray.length, c);
}

/** Creates a new empty queue with capacity equal to the length of the reference array and using the natural order.

* @param refArray the reference array.
*/
public HEAP_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray) {
 this(refArray, refArray.length, null);
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
* The first <code>size</code> element of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param size the number of elements to be included in the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, final int
size, final KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(refArray, 0, c);
 this.heap = a;
 this.size = size;
 int i = size;
 while(i-- != 0
) {
 if (inv[a[i]] != -1) throw new IllegalArgumentException("Index " + a[i] + " appears twice in the heap");
 inv[a[i]] = i;
 }
}

```

```

INDIRECT_HEAPS.makeHeap(refArray, a, inv, size, c);
}

/** Wraps a given array in a queue using a given comparator.
 *
 * <P>The queue returned by this method will be backed by the given array.
 * The elements of the array will be rearranged so to form a heap (this is
 * more efficient than enqueueing the elements of <code>a</code> one by one).
 *
 * @param refArray the reference array.
 * @param a an array of indices into <code>refArray</code>.
 * @param c the comparator used in this queue, or <code>>null</code> for the natural order.
 */
public HEAP_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, final
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(refArray, a, a.length, c);
}

/** Wraps a given array in a queue using the natural order.
 *
 * <P>The queue returned by this method will be backed
by the given array.
 * The first <code>size</code> element of the array will be rearranged so to form a heap (this is
 * more efficient than enqueueing the elements of <code>a</code> one by one).
 *
 * @param refArray the reference array.
 * @param a an array of indices into <code>refArray</code>.
 * @param size the number of elements to be included in the queue.
 */
public HEAP_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, int size) {
 this(refArray, a, size, null);
}

/** Wraps a given array in a queue using the natural order.
 *
 * <P>The queue returned by this method will be backed by the given array.
 * The elements of the array will be rearranged so to form a heap (this is
 * more efficient than enqueueing the elements of <code>a</code> one by one).
 *
 * @param refArray the reference array.
 * @param a an array of indices into <code>refArray</code>.
 */
public HEAP_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final
int[] a) {
 this(refArray, a, a.length);
}

```

```

public void enqueue(final int x) {
 if (inv[x] >= 0) throw new IllegalArgumentException("Index " + x + " belongs to the queue");

 if (size == heap.length) heap = IntArrays.grow(heap, size + 1);

 inv[heap[size] = x] = size++;

 INDIRECT_HEAPS.upHeap(refArray, heap, inv, size, size - 1, c);
}

public boolean contains(final int index) {
 return inv[index] >= 0;
}

public int dequeue() {
 if (size == 0) throw new NoSuchElementException();
 final int result = heap[0];
 if (--size != 0) inv[heap[0] = heap[size]] = 0;
 inv[result] = -1;

 if (size != 0) INDIRECT_HEAPS.downHeap(refArray, heap, inv, size, 0, c);
 return result;
}

public void changed() {
 INDIRECT_HEAPS.downHeap(refArray, heap, inv, size, 0, c);
}

public void changed(final int index) {
 final int pos = inv[index];
 if (pos < 0) throw new IllegalArgumentException("Index " + index + " does not belong to the
queue");
 final int newPos = INDIRECT_HEAPS.upHeap(refArray, heap, inv, size, pos, c);
 INDIRECT_HEAPS.downHeap(refArray, heap, inv, size, newPos, c);
}

/** Rebuilds this heap in a bottom-up fashion.
*/

public void allChanged() {
 INDIRECT_HEAPS.makeHeap(refArray, heap, inv, size, c);
}

public boolean remove(final int index) {
 final int result = inv[index];
 if (result < 0) return false;

```

```

inv[index] = -1;

if (result < --size) {
 inv[heap[result] = heap[size]] = result;
 final int newPos = INDIRECT_HEAPS.upHeap(refArray, heap, inv, size, result, c);
 INDIRECT_HEAPS.downHeap(refArray, heap, inv, size, newPos, c);
}

return true;
}

public void clear() {
 size = 0;
 Arrays.fill(inv, -1);
}

#ifdef TEST

/** The original class, now just used for testing. */

private static class TestQueue {

 /** The reference array */
 private KEY_TYPE refArray[];
 /** Its length */
 private int N;
 /** The number of elements in
the heaps */
 private int n;
 /** The two comparators */
 private KEY_COMPARATOR primaryComp, secondaryComp;
 /** Two indirect heaps are used, called <code>primary</code> and <code>secondary</code>. Each of them
contains
 a permutation of <code>n</code> among the indices 0, 1, ..., <code>N</code>-1 in such a way that the
corresponding
 objects be sorted with respect to the two comparators.
 We also need an array <code>inSec[]</code> so that <code>inSec[k]</code> is the index of
<code>secondary</code>
 containing <code>k</code>.
 */
 private int primary[], secondary[], inSec[];

 /** Builds a double indirect priority queue.
 * @param refArray The reference array.
 * @param primaryComp The primary comparator.

```

```

* @param secondaryComp The secondary comparator.
*/
public TestQueue(KEY_TYPE refArray[], KEY_COMPARATOR primaryComp, KEY_COMPARATOR
secondaryComp) {
 this.refArray = refArray;
 this.N = refArray.length;
 assert this.N != 0;
 this.n = 0;
 this.primaryComp
= primaryComp;
 this.secondaryComp = secondaryComp;
 this.primary = new int[N];
 this.secondary = new int[N];
 this.inSec = new int[N];
 java.util.Arrays.fill(inSec, -1);
}

/** Adds an index to the queue. Notice that the index should not be already present in the queue.
* @param i The index to be added
*/
public void add(int i) {
 if (i < 0 || i >= refArray.length) throw new IndexOutOfBoundsException();
 if (inSec[i] >= 0) throw new IllegalArgumentException();
 primary[n] = i;
 secondary[n] = i; inSec[i] = n;
 n++;
 swimPrimary(n-1);
 swimSecondary(n-1);
}

/** Heapify the primary heap.
* @param i The index of the heap to be heapified.
*/
private void heapifyPrimary(int i) {
 int dep = primary[i];
 int child;

 while ((child = 2*i+1) < n) {
 if (child+1 < n && primaryComp.compare(refArray[primary[child+1]], refArray[primary[child]]) < 0) child++;
 if (primaryComp.compare(refArray[dep],
refArray[primary[child]]) <= 0) break;
 primary[i] = primary[child];
 i = child;
 }
 primary[i] = dep;
}

/** Heapify the secondary heap.

```

```

* @param i The index of the heap to be heapified.
*/
private void heapifySecondary(int i) {
 int dep = secondary[i];
 int child;

 while ((child = 2*i+1) < n) {
 if (child+1 < n && secondaryComp.compare(refArray[secondary[child+1]], refArray[secondary[child]]) < 0)
 child++;
 if (secondaryComp.compare(refArray[dep], refArray[secondary[child]]) <= 0) break;
 secondary[i] = secondary[child]; inSec[secondary[i]] = i;
 i = child;
 }
 secondary[i] = dep; inSec[secondary[i]] = i;
}

/** Swim and heapify the primary heap.
* @param i The index to be moved.
*/
private void swimPrimary(int i) {
 int dep = primary[i];
 int parent;

 while (i != 0 && (parent = (i - 1) / 2) >= 0) {
 if (primaryComp.compare(refArray[primary[parent]], refArray[dep]) <= 0) break;
 primary[i]
= primary[parent];
 i = parent;
 }
 primary[i] = dep;
 heapifyPrimary(i);
}

/** Swim and heapify the secondary heap.
* @param i The index to be moved.
*/
private void swimSecondary(int i) {
 int dep = secondary[i];
 int parent;

 while (i != 0 && (parent = (i - 1) / 2) >= 0) {
 if (secondaryComp.compare(refArray[secondary[parent]], refArray[dep]) <= 0) break;
 secondary[i] = secondary[parent]; inSec[secondary[i]] = i;
 i = parent;
 }
 secondary[i] = dep; inSec[secondary[i]] = i;
 heapifySecondary(i);
}

```

```

/** Returns the minimum element with respect to the primary comparator.
 * @return the minimum element.
 */
public int top() {
 if (n == 0) throw new java.util.NoSuchElementException();
 return primary[0];
}

/** Returns the minimum element with respect to the secondary comparator.
 * @return the minimum element.
 */
public int secTop() {
 if (n == 0) throw new java.util.NoSuchElementException();
 return
secondary[0];
}

/** Removes the minimum element with respect to the primary comparator.
 * @return the removed element.
 */
public boolean remove() {
 if (n == 0) throw new java.util.NoSuchElementException();
 if (inSec[primary[0]] == -1) return false;
 int result = primary[0];
 int ins = inSec[result];
 inSec[result] = -1;
 // Copy a leaf
 primary[0] = primary[n-1];
 if (ins == n-1) {
 n--;
 heapifyPrimary(0);
 return true;
 }
 secondary[ins] = secondary[n-1];
 inSec[secondary[ins]] = ins;
 // Heapify
 n--;
 heapifyPrimary(0);
 swimSecondary(ins);
 return true;
}

public void clear() {
 while(size() != 0) remove();
}

public void remove(int index) {

```

```

if (index >= refArray.length) throw new IndexOutOfBoundsException();
if (inSec[index] == -1) return;
int ins = inSec[index];
inSec[index] = -1;
// Copy a leaf
primary[ins] = primary[n-1];
if (ins == n-1) {
 n--;
 swimPrimary(
ins);
 return;
}
secondary[ins] = secondary[n-1];
inSec[secondary[ins]] = ins;
// Heapify
n--;
swimPrimary(ins);
swimSecondary(ins);
}

/** Signals that the minimum element with respect to the comparator has changed.
 */
public void change() {
if (n == 0) throw new java.util.NoSuchElementException();
if (inSec[primary[0]] == -1) throw new IllegalArgumentException();
int ins = inSec[primary[0]];
heapifyPrimary(0);
swimSecondary(ins);
}

public void change(int index) {
if (index >= refArray.length) throw new IndexOutOfBoundsException();
if (inSec[index] == -1) throw new IllegalArgumentException();
if (n == 0) throw new java.util.NoSuchElementException();
int ins = inSec[index];
swimPrimary(ins);
swimSecondary(ins);
}

/** Returns the number of elements in the queue.
 * @return the size of the queue
 */
public int size() {
return n;
}

```



```

public String toString()
{
 String s = "[";
 for (int i = 0; i < n; i++)
 s += refArray[primary[i]]+", ";
 return s+ "]";
}
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
 #elif #keys(primitive)
 return r.NEXT_KEY();
 #elif #keyclass(Object)
 return Integer.toBinaryString(r.nextInt());
 #else
 return new java.io.Serializable() {};
 #endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
 System.out.println("There are presently no speed tests for this class.");
}

private
static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

```

```

private static boolean heapEqual(int[] a, int[] b, int sizea, int sizeb) {
 if (sizea != sizeb) return false;
 while(sizea-- != 0) if (a[sizea] != b[sizea]) return false;
 return true;
}

private static boolean invEqual(int inva[], int[] invb) {
 int i = inva.length;
 while(i-- != 0) if (inva[i] != invb[i]) return false;
 return true;
}

protected static void test(int n) {
 long ms;
 Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds, mThrowsNoElement,
 tThrowsNoElement;
 int rm = 0, rt = 0;
 KEY_TYPE[] refArray = new KEY_TYPE[n];

 for(int i = 0; i < n; i++) refArray[i] = genKey();

 HEAP_INDIRECT_PRIORITY_QUEUE m = new HEAP_INDIRECT_PRIORITY_QUEUE(refArray,
 COMPARATORS.NATURAL_COMPARATOR);
 TestQueue t = new TestQueue(
 refArray, COMPARATORS.NATURAL_COMPARATOR, COMPARATORS.NATURAL_COMPARATOR);

 /* We add pairs to t. */
 for(int i = 0; i < n / 2; i++) {
 t.add(i);
 m.enqueue(i);
 }

 ensure(heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after creation (" + m +
 ", " + t + ")");
 ensure(invEqual(m.inv, t.inSec), "Error (" + seed + "): m and t differ in inversion arrays after creation (" +
 java.util.Arrays.toString(m.inv) + ", " + java.util.Arrays.toString(t.inSec) + ")");

 /* Now we add and remove random data in m and t, checking that the result is the same. */

 for(int i=0; i<2*n; i++) {
 if (r.nextDouble() < 0.01) {
 t.clear();
 m.clear();
 for(int j = 0; j < n / 2; j++) {
 t.add(j);
 m.enqueue(j);
 }
 }
 }
}

```

```

int T = r.nextInt(2 * n);

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try {
 m.enqueue(T);
}
catch
(IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { mThrowsIllegal = e; }

try {
 t.add(T);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): enqueue()
divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds
+ ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): enqueue() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");

ensure(heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after enqueue (" + m +
", " + t + ")");
ensure(invEqual(m.inv, t.inSec), "Error (" + seed + "): m and t differ in inversion arrays after enqueue (" +
java.util.Arrays.toString(
m.inv) + ", " + java.util.Arrays.toString(t.inSec) + ")");

if (m.size() != 0) {
 ensure(m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after enqueue (" + m.first() + ", " +
t.top() + ")");
}

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try {
 rm = m.dequeue();
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { mThrowsIllegal = e; }
catch (java.util.NoSuchElementException e) { mThrowsNoElement = e; }

try {
 rt = t.top();

```

```

 t.remove();
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }
catch (java.util.NoSuchElementException e) { tThrowsNoElement = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): dequeue()
divergence
in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): dequeue() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
ensure((mThrowsNoElement == null) == (tThrowsNoElement == null), "Error (" + seed + "): dequeue()
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
if (mThrowsOutOfBounds == null) ensure(rt == rm , "Error (" + seed + "): divergence in dequeue() between t and
m (" + rt + ", " + rm + ")");

ensure(heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after dequeue (" + m +
", " + t + ")");
ensure(invEqual(m.inv, t.inSec), "Error (" + seed + "): m and t differ in inversion arrays after dequeue (" +
java.util.Arrays.toString(m.inv) + ", " + java.util.Arrays.toString(t.inSec) + ")");

if
(m.size() != 0) {
 ensure(m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after dequeue (" + m.first() + ", " +
t.top() + ")");
}

int pos = r.nextInt(n * 2);

try {
 m.remove(pos);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { mThrowsIllegal = e; }
catch (java.util.NoSuchElementException e) { mThrowsNoElement = e; }

try {
 t.remove(pos);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }
catch (java.util.NoSuchElementException e) { tThrowsNoElement = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): remove(int)
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed

```

```

+ "): remove(int) divergence in IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + "));
 ensure((mThrowsNoElement == null) == (tThrowsNoElement == null), "Error (" + seed + "): remove(int)
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + "));
 if (mThrowsOutOfBounds == null) ensure(rt == rm , "Error (" + seed + "): divergence in remove(int) between t
and m (" + rt + ", " + rm + " ");

 ensure(heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after remove(int) (" +
m + ", " + t + " ");
 ensure(invEqual(m.inv, t.inSec), "Error (" + seed + "): m and t differ in inversion arrays after remove(int) (" +
java.util.Arrays.toString(m.inv) + ", " + java.util.Arrays.toString(t.inSec) + " ");

 if (m.size() != 0) {
 ensure(m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after remove(int) (" + m.first() + ", "
+ t.top() + " ");
 }

 pos
= r.nextInt(n * 2);

 try {
 m.changed(pos);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 catch (IllegalArgumentException e) { mThrowsIllegal = e; }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = e; }

 try {
 t.change(pos);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
 catch (IllegalArgumentException e) { tThrowsIllegal = e; }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): change(int)
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + " ");
 ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): change(int) divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + " ");
 ensure((mThrowsNoElement == null) == (tThrowsNoElement
== null), "Error (" + seed + "): change(int) divergence in java.util.NoSuchElementException (" +
mThrowsNoElement + ", " + tThrowsNoElement + " ");
 if (mThrowsOutOfBounds == null) ensure(rt == rm , "Error (" + seed + "): divergence in change(int) between t
and m (" + rt + ", " + rm + " ");

 ensure(heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after change(int) (" +
m + ", " + t + " ");
 ensure(invEqual(m.inv, t.inSec), "Error (" + seed + "): m and t differ in inversion arrays after change(int) (" +
java.util.Arrays.toString(m.inv) + ", " + java.util.Arrays.toString(t.inSec) + " ");

```

```

 if (m.size() != 0) {
 ensure(m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after change(int) (" + m.first() + ", "
+ t.top() + ")");
 }

 if (m.size() != 0) {

 refArray[m.first()] = genKey();

 m.changed();
 t.change();

 ensure(heapEqual(m.heap, t.primary, m.size(), t.size()
), "Error (" + seed + "): m and t differ after change (" + m + ", " + t + ")");
 ensure(invEqual(m.inv, t.inSec), "Error (" + seed + "): m and t differ in inversion arrays after change (" +
java.util.Arrays.toString(m.inv) + ", " + java.util.Arrays.toString(t.inSec) + ")");

 if (m.size() != 0) {
 ensure(m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after change (" + m.first() + ", " +
t.top() + ")");
 }
 }

 }

 /* Now we check that m actually holds the same data. */

 m.clear();
 ensure(m.isEmpty(), "Error (" + seed + "): m is not empty after clear()");

 System.out.println("Test OK");
}

public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(
args[0])) test(n);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}

```

```
}
}

#endif

}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/HeapIndirectPriorityQueue.drv
```

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

```
/*
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.BidirectionalIterator;
#if #keys(primitive)
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
#endif
```

```
/** A type-specific bidirectional iterator; provides an additional method to avoid (un)boxing,
* and the possibility to skip elements backwards.
*
* @see BidirectionalIterator
*/
```

```
#if #keys(primitive)
public interface KEY_BIDI_ITERATOR KEY_GENERIC extends KEY_ITERATOR KEY_GENERIC,
ObjectBidirectionalIterator<KEY_GENERIC_CLASS> {
#else
public interface KEY_BIDI_ITERATOR KEY_GENERIC extends KEY_ITERATOR KEY_GENERIC,
BidirectionalIterator<KEY_GENERIC_CLASS> {
```

```
#endif
```

```
#if #keys(primitive)
```

```
/**
 * Returns the previous element as a primitive type.
 *
 * @return the previous element in the iteration.
 * @see java.util.ListIterator#previous()
 */
```

```
KEY_TYPE PREV_KEY();
```

```
#endif
```

```
/** Moves back for the given number of elements.
 *
 * <P>The effect of this call is exactly the same as that of
 * calling { @link #previous() } for <code>n</code> times (possibly stopping
 * if { @link #hasPrevious() } becomes false).
 *
 * @param n the number of elements to skip back.
 * @return the number of elements actually skipped.
 * @see java.util.Iterator#next()
 */
```

```
int back(int n);
}
```

Found in path(s):

```
*/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BidirectionalIterator.drv
No license file was found, but licenses were detected in source scan.
```

```
/*
 * Copyright (C) 2002-2015 Sebastiano Vigna
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```



```

package PACKAGE;

import java.util.Collection;
import java.util.Set;

/** A class providing static methods and objects that do useful things with type-specific sets.
 *
 * @see java.util.Collections
 */

public class SETS {

 private SETS() {}

 /** An immutable class representing the empty set and implementing a
 type-specific set interface.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific set.
 */

 public static class EmptySet KEY_GENERIC extends COLLECTIONS.EmptyCollection KEY_GENERIC
 implements SET KEY_GENERIC, java.io.Serializable, Cloneable {
 private static final long serialVersionUID = -7046029254386353129L;

 protected EmptySet() {}

 public boolean remove(KEY_TYPE ok) { throw new UnsupportedOperationException(); }
 public Object clone() { return EMPTY_SET; }
 private Object readResolve() { return EMPTY_SET; }
 }

 /** An empty set (immutable). It is serializable and cloneable.
 *
 * <P>The class of this objects represent an abstract empty set
 * that is a subset of a (sorted) type-specific set.
 */
 SUPPRESS_WARNINGS_KEY_RAWTYPES
 public static final EmptySet EMPTY_SET = new EmptySet();

 /** An immutable class representing a type-specific singleton set.
 *
 * <P>This class may be useful to implement your own in

```

case you subclass

```
* a type-specific set. */
```

```
public static class Singleton KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable {
```

```
private static final long serialVersionUID = -7046029254386353129L;
```

```
protected final KEY_GENERIC_TYPE element;
```

```
protected Singleton(final KEY_GENERIC_TYPE element) {
 this.element = element;
}
```

```
public boolean add(final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
```

```
public boolean contains(final KEY_GENERIC_TYPE k) { return KEY_EQUALS(k, element); }
```

```
public boolean addAll(final Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
```

```
public boolean removeAll(final Collection<?> c) { throw new UnsupportedOperationException(); }
```

```
public boolean retainAll(final Collection<?> c) { throw new UnsupportedOperationException(); }
```

```
#if #keys(primitive)
```

```
/* Slightly optimized w.r.t. the one in ABSTRACT_SET. */
```

```
public KEY_GENERIC_TYPE[] TO_KEY_ARRAY()
{
 KEY_GENERIC_TYPE a[] = new KEY_GENERIC_TYPE[1];
 a[0] = element;
 return a;
}
```

```
public boolean addAll(final COLLECTION c) { throw new UnsupportedOperationException(); }
```

```
public boolean removeAll(final COLLECTION c) { throw new UnsupportedOperationException(); }
```

```
public boolean retainAll(final COLLECTION c) { throw new UnsupportedOperationException(); }
```

```
#endif
```

```
public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return ITERATORS.singleton(element); }
```

```
public int size() { return 1; }
```

```
public Object clone() { return this; }
}
```

```
#if ! #keyclass(Reference)
```

```
/** Returns a type-specific immutable set containing only the specified element. The returned set is serializable and
cloneable.
```

```

*
* @param element the only element of the returned set.
* @return a type-specific immutable set containing just <code>element</code>.
*/

public static KEY_GENERIC SET KEY_GENERIC singleton(final KEY_GENERIC_TYPE element) {
 return new Singleton KEY_GENERIC(element);
}

#endif

#if
! #keyclass(Object)

/** Returns a type-specific immutable set containing only the specified element. The returned set is serializable and
cloneable.
*
* @param element the only element of the returned set.
* @return a type-specific immutable set containing just <code>element</code>.
*/

public static KEY_GENERIC SET KEY_GENERIC singleton(final KEY_GENERIC_CLASS element) {
 return new Singleton KEY_GENERIC(KEY_CLASS2TYPE(element));
}

#endif

/** A synchronized wrapper class for sets. */

public static class SynchronizedSet KEY_GENERIC extends COLLECTIONS.SynchronizedCollection
KEY_GENERIC implements SET KEY_GENERIC, java.io.Serializable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected SynchronizedSet(final SET KEY_GENERIC s, final Object sync) {
 super(s, sync);
 }

 protected SynchronizedSet(final SET KEY_GENERIC s) {
 super(s);
 }

 public boolean remove(final KEY_TYPE k) { synchronized(sync) { return
collection.remove(KEY2OBJ(k)); } }
 public boolean equals(final Object o) { synchronized(sync) { return collection.equals(o); } }
 public int hashCode() { synchronized(sync) { return collection.hashCode(); } }
}

```

```

/** Returns a synchronized type-specific set backed by the given type-specific set.
 *
 * @param s the set to be wrapped in a synchronized set.
 * @return a synchronized view of the specified set.
 * @see java.util.Collections#synchronizedSet(Set)
 */
public static KEY_GENERIC SET KEY_GENERIC synchronize(final SET KEY_GENERIC s) { return new
SynchronizedSet KEY_GENERIC(s); }

```

```

/** Returns a synchronized type-specific set backed by the given type-specific set, using an assigned object to
synchronize.
 *
 * @param s the set to be wrapped in a synchronized set.
 * @param sync an object that will be used to synchronize the access to the set.
 * @return a synchronized view of the specified set.
 * @see java.util.Collections#synchronizedSet(Set)
 */

```

```

public
static KEY_GENERIC SET KEY_GENERIC synchronize(final SET KEY_GENERIC s, final Object sync) {
return new SynchronizedSet KEY_GENERIC(s, sync); }

```

```

/** An unmodifiable wrapper class for sets. */

```

```

public static class UnmodifiableSet KEY_GENERIC extends COLLECTIONS.UnmodifiableCollection
KEY_GENERIC implements SET KEY_GENERIC, java.io.Serializable {

```

```

private static final long serialVersionUID = -7046029254386353129L;

```

```

protected UnmodifiableSet(final SET KEY_GENERIC s) {
super(s);
}

```

```

public boolean remove(final KEY_TYPE k) { throw new UnsupportedOperationException(); }
public boolean equals(final Object o) { return collection.equals(o); }
public int hashCode() { return collection.hashCode(); }
}

```

```

/** Returns an unmodifiable type-specific set backed by the given type-specific set.
 *
 * @param s the set to be wrapped in an unmodifiable set.
 * @return an unmodifiable view of the specified set.
 * @see java.util.Collections#unmodifiableSet(Set)

```

```

*/
public static KEY_GENERIC SET KEY_GENERIC unmodifiable(final SET KEY_GENERIC s) { return new
UnmodifiableSet KEY_GENERIC(s); }

#ifdef TEST

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#elif #keyclass(Object)
return Integer.toBinaryString(r.nextInt());
#else
return new java.io.Serializable() {};
#endif
}

private static void test() {
int n = 100;
int c;
KEY_TYPE k = genKey();
Singleton m = new Singleton(k);
Set t = java.util.Collections.singleton(KEY2OBJ(k));

long ms;
boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement, mThrowsIndex, tThrowsIndex,
mThrowsUnsupp, tThrowsUnsupp;
boolean rt = false, rm = false;

/* Now we check that m and t are equal. */
if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(m.equals(t), "Error (" + seed + "):
! m.equals(t) at start");
ensure(t.equals(m), "Error (" + seed + "): ! t.equals(m) at start");

/* Now we check that m actually holds that data. */
for(java.util.Iterator i=t.iterator(); i.hasNext();) {
ensure(m.contains(i.next()), "Error (" + seed + "): m and t differ on an entry after insertion (iterating on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(java.util.Iterator i=m.iterator(); i.hasNext();) {

```

```

ensure(t.contains(i.next()), "Error (" + seed + "): m and t differ on an entry after insertion (iterating on m)");
}

/* Now we check that inquiries about random data give the same answer in m and t. For
 m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 m.contains(T);
 }
 catch (java.util.NoSuchElementException
e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }

 try {
 t.contains(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex
+ ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex) ensure(m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + seed + "): divergence in keys between t and m (polymorphic method) " + m);
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
 for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {

```

```

 m.contains(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 t.contains(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement
= true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): contains() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement
&& !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + seed + "): divergence between t and m (standard method) " + m);
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.add(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 rt = t.add(KEY2OBJ(T));
 }
}

```

```

catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal
= true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): add() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): add() divergence in IllegalArgumentException for
" + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + seed + "): add() divergence in IndexOutOfBoundsException
for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): add() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm ==
rt, "Error (" + seed + "): divergence in add() between t and m " + m);

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
rm = m.remove(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
rt = t.remove(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

if (! KEY_EQUALS(T, k) && mThrowsUnsupp && !tThrowsUnsupp) mThrowsUnsupp = false; // Stupid bug
in Collections.singleton()

ensure(
mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): remove() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): remove() divergence in IllegalArgumentException
for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + seed + "): remove() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);

```



```

 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + seed + "): divergence in remove() between t and m " + m);
}

ensure(m.equals(t), "Error (" + seed
+ "): ! m.equals(t) after removal " + m);
ensure(t.equals(m), "Error (" + seed + "): ! t.equals(m) after removal " + m);

/* Now we add and remove random collections in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 rt = t.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal
= true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): addAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): addAll() divergence in IllegalArgumentException
for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + seed + "): addAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): addAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp)
ensure(rm == rt, "Error (" + seed + "): divergence in addAll() between t and m " + m);

 T = genKey();

```

```
mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;
```

```
try {
 rm = m.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }
```

```
try {
 rt = t.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }
```

```
if (! KEY_EQUALS(
T, k) && mThrowsUnsupp && ! tThrowsUnsupp) mThrowsUnsupp = false; // Stupid bug in
Collections.singleton()
```

```
ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + seed + "): removeAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + seed + "): removeAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + seed + "): removeAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + seed + "): removeAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + seed
+ "): divergence in removeAll() between t and m " + m);
}
```

```
ensure(m.equals(t), "Error (" + seed + "): ! m.equals(t) after set removal " + m);
ensure(t.equals(m), "Error (" + seed + "): ! t.equals(m) after set removal " + m);
```

```
/* Now we check that m actually holds the same data. */
```

```
for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + seed + "): m and t differ on an entry after removal (iterating on t)");
}
```

```
/* Now we check that m actually holds that data, but iterating on m. */
```

```
for(java.util.Iterator i=m.iterator(); i.hasNext();) {
```

```

ensure(t.contains(i.next()), "Error (" + seed + "): m and t differ on an entry after removal (iterating on m)");
}

if (m instanceof Singleton) {
ensure(m.equals(((Singleton)m).clone()), "Error (" + seed + "): m does not equal m.clone()");
ensure(((Singleton)m).clone().equals(m), "Error (" + seed + "): m.clone() does not equal m");
}

int
h = m.hashCode();

/* Now we save and read m. */

SET m2 = null;

try {
java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
java.io.OutputStream os = new java.io.FileOutputStream(ff);
java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

oos.writeObject(m);
oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (SET)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit(1);
}

#if ! #keyclass(Reference)

ensure(m2.hashCode() == h, "Error (" + seed + "): hashCode() changed after save/read");

/* Now we check that m2 actually holds that data. */

ensure(m2.equals(t), "Error (" + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + seed + "): ! t.equals(m2) after save/read");
#endif

System.out.println("Test OK");
return;
}

```

```

private
static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition fp = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, fp).toString();
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

/** This method expects as first argument a lower-cased type (e.g., "int"),
 * and as second optional argument a seed. */

public static void main(String arg[]) throws Exception {
 if (arg.length > 1) r = new java.util.Random(seed = Long.parseLong(arg[1]));

 try {
 test();
 } catch(Throwable e) {
 e.printStackTrace(System.err
);
 System.err.println("seed: " + seed);
 }
}

#endif

}

Found in path(s):
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Sets.drv
No license file was found, but licenses were detected in source scan.

/*
* Copyright (C) 2002-2015 Sebastiano Vigna

```

```

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*/

```

```
package PACKAGE;
```

```
import java.util.AbstractCollection;
import java.util.Collection;
import java.util.Iterator;
```

```
/** An abstract class providing basic methods for collections implementing a type-specific interface.
*
* <P>In particular, this class provide { @link #iterator()}, <code>add()</code>, { @link #remove(Object)}
and
* { @link #contains(Object)} methods that just call the type-specific counterpart.
*/

```

```
public abstract class ABSTRACT_COLLECTION KEY_GENERIC extends
AbstractCollection<KEY_GENERIC_CLASS> implements COLLECTION KEY_GENERIC {
```

```
protected ABSTRACT_COLLECTION() {}
```

```
#if #keys(primitive)
```

```
public KEY_TYPE[] toArray(KEY_TYPE a[]) {
return TO_KEY_ARRAY(a);
}
```

```
public KEY_TYPE[] TO_KEY_ARRAY() {
return TO_KEY_ARRAY(null);
}
```

```
public KEY_TYPE[] TO_KEY_ARRAY(KEY_TYPE a[]) {
if (a == null || a.length < size()) a = new KEY_TYPE[size()];
ITERATORS.unwrap(iterator(), a);
return a;
}
```

```

/** Adds all elements of the given type-specific collection to this collection.
 *
 * @param c a type-specific collection.
 * @return <code>true</code> if this collection changed as a result of the call.
 */

public boolean addAll(COLLECTION c) {
 boolean retVal = false;
 final KEY_ITERATOR i = c.iterator();
 int n = c.size();

 while(n-- != 0) if (add(i.NEXT_KEY())
) retVal = true;
 return retVal;
}

/** Checks whether this collection contains all elements from the given type-specific collection.
 *
 * @param c a type-specific collection.
 * @return <code>true</code> if this collection contains all elements of the argument.
 */

public boolean containsAll(COLLECTION c) {
 final KEY_ITERATOR i = c.iterator();
 int n = c.size();

 while(n-- != 0) if (! contains(i.NEXT_KEY())) return false;

 return true;
}

/** Retains in this collection only elements from the given type-specific collection.
 *
 * @param c a type-specific collection.
 * @return <code>true</code> if this collection changed as a result of the call.
 */

public boolean retainAll(COLLECTION c) {
 boolean retVal = false;
 int n = size();

 final KEY_ITERATOR i = iterator();

 while(n-- != 0) {
 if (! c.contains(i.NEXT_KEY())) {
 i.remove();
 retVal = true;
 }
 }
}

```

```

 }
}

return retVal;
}

/** Remove from this collection all elements in the
given type-specific collection.
*
* @param c a type-specific collection.
* @return <code>true</code> if this collection changed as a result of the call.
*/

public boolean removeAll(COLLECTION c) {
 boolean retVal = false;
 int n = c.size();

 final KEY_ITERATOR i = c.iterator();

 while(n-- != 0) if (rem(i.NEXT_KEY())) retVal = true;

 return retVal;
}

#endif

public Object[] toArray() {
 final Object[] a = new Object[size()];
 it.unimi.dsi.fastutil.objects.ObjectIterators.unwrap(iterator(), a);
 return a;
}

@SuppressWarnings("unchecked")
public <T> T[] toArray(T[] a) {
 if (a.length < size()) a = (T[])java.lang.reflect.Array.newInstance(a.getClass().getComponentType(), size());
 it.unimi.dsi.fastutil.objects.ObjectIterators.unwrap(iterator(), a);
 return a;
}

/** Adds all elements of the given collection to this collection.
*
* @param c a collection.
* @return <code>true</code> if this collection changed as a result of the call.
*/

public boolean addAll(Collection<? extends KEY_GENERIC_CLASS> c) {
 boolean retVal = false;

```

```

final Iterator<? extends KEY_GENERIC_CLASS> i = c.iterator();
int n = c.size();

while(n-- != 0) if (add(i.next())) retVal = true;
return retVal;
}

public boolean add(KEY_GENERIC_TYPE k) {
 throw new UnsupportedOperationException();
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() {
 return iterator();
}

public abstract KEY_ITERATOR KEY_GENERIC iterator();

#if #keys(primitive)

/** Delegates to the type-specific <code>rem()</code> method. */
public boolean remove(Object ok) {
 return rem(KEY_OBJ2TYPE(ok));
}

/** Delegates to the corresponding type-specific method. */
public boolean add(final KEY_CLASS o) {
 return add(o.KEY_VALUE());
}

/** Delegates to the corresponding type-specific method. */
public boolean rem(final Object o) {
 return rem(
 KEY_OBJ2TYPE(o));
}

/** Delegates to the corresponding type-specific method. */
public boolean contains(final Object o) {
 return contains(KEY_OBJ2TYPE(o));
}

public boolean contains(final KEY_TYPE k) {
 final KEY_ITERATOR iterator = iterator();
 while (iterator.hasNext()) if (k == iterator.NEXT_KEY()) return true;
 return false;
}

```



```

public boolean rem(final KEY_TYPE k) {
 final KEY_ITERATOR iterator = iterator();
 while (iterator.hasNext())
 if (k == iterator.NEXT_KEY()) {
 iterator.remove();
 return true;
 }
 return false;
}

```

#endif

```

/** Checks whether this collection contains all elements from the given collection.
 *
 * @param c a collection.
 * @return <code>true</code> if this collection contains all elements of the argument.
 */

```

```

public boolean containsAll(Collection<?> c) {
 int n = c.size();

 final Iterator<?> i = c.iterator();
 while(n-- != 0) if (! contains(i.next())) return false;

 return true;
}

```

```

/**
Retains in this collection only elements from the given collection.
 *
 * @param c a collection.
 * @return <code>true</code> if this collection changed as a result of the call.
 */

```

```

public boolean retainAll(Collection<?> c) {
 boolean retVal = false;
 int n = size();

 final Iterator<?> i = iterator();
 while(n-- != 0) {
 if (! c.contains(i.next())) {
 i.remove();
 retVal = true;
 }
 }
}

```

```

return retVal;
}

/** Remove from this collection all elements in the given collection.
 * If the collection is an instance of this class, it uses faster iterators.
 *
 * @param c a collection.
 * @return <code>true</code> if this collection changed as a result of the call.
 */

public boolean removeAll(Collection<?> c) {
 boolean retVal = false;
 int n = c.size();

 final Iterator<?> i = c.iterator();
 while(n-- != 0) if (remove(i.next())) retVal = true;

 return retVal;
}

public boolean isEmpty() {
 return size() == 0;
}

public String
toString() {
 final StringBuilder s = new StringBuilder();
 final KEY_ITERATOR KEY_GENERIC i = iterator();
 int n = size();
 KEY_TYPE k;
 boolean first = true;

 s.append("{}");

 while(n-- != 0) {
 if (first) first = false;
 else s.append(", ");
 k = i.NEXT_KEY();
 #if #keys(reference)
 if (this == k) s.append("(this collection)"); else
 #endif
 s.append(String.valueOf(k));
 }

 s.append("{}");
 return s.toString();
}
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractCollection.drv

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/\*

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\*/

package PACKAGE;

#if #keys(reference)

import it.unimi.dsi.fastutil.Stack;

#endif

import java.util.List;

import java.util.Iterator;

import java.util.ListIterator;

import java.util.Collection;

import java.util.NoSuchElementException;

/\*\* An abstract class providing basic methods for lists implementing a type-specific list interface.

\*

\* <P>As an additional bonus, this class implements on top of the list operations a type-specific stack.

\*/

public abstract class ABSTRACT\_LIST KEY\_GENERIC extends ABSTRACT\_COLLECTION KEY\_GENERIC implements LIST KEY\_GENERIC, STACK KEY\_GENERIC {

protected ABSTRACT\_LIST() {}

/\*\* Ensures that the given index is nonnegative and not greater than the list size.

\*

\* @param index an index.

```

* @throws IndexOutOfBoundsException if the given index is negative or greater than the list size.
*/
protected void ensureIndex(final int index) {
 if (index < 0) throw new IndexOutOfBoundsException("Index (" + index + ") is negative");
 if (index > size()) throw new IndexOutOfBoundsException("Index (" + index + ") is greater than list size (" + (
size()) + ")");
}

/** Ensures that the given index is nonnegative and smaller than the list size.
*
* @param index an index.
* @throws IndexOutOfBoundsException if the given index is negative or not smaller
than the list size.
*/
protected void ensureRestrictedIndex(final int index) {
 if (index < 0) throw new IndexOutOfBoundsException("Index (" + index + ") is negative");
 if (index >= size()) throw new IndexOutOfBoundsException("Index (" + index + ") is greater than or equal to list
size (" + (size()) + ")");
}

public void add(final int index, final KEY_GENERIC_TYPE k) {
 throw new UnsupportedOperationException();
}

public boolean add(final KEY_GENERIC_TYPE k) {
 add(size(), k);
 return true;
}

public KEY_GENERIC_TYPE REMOVE_KEY(int i) {
 throw new UnsupportedOperationException();
}

public KEY_GENERIC_TYPE set(final int index, final KEY_GENERIC_TYPE k) {
 throw new UnsupportedOperationException();
}

public boolean addAll(int index, final Collection<? extends KEY_GENERIC_CLASS> c) {
 ensureIndex(index);
 int n = c.size();
 if (n == 0) return false;
 Iterator<? extends KEY_GENERIC_CLASS> i = c.iterator();
 while(n-- != 0)
 add(index++, i.next());
 return true;
}

/** Delegates to a more generic method. */

```

```

public boolean addAll(final Collection<? extends KEY_GENERIC_CLASS> c) {
 return addAll(size(), c);
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD() {
 return listIterator();
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD(final int index) {
 return listIterator(index);
}

public KEY_LIST_ITERATOR KEY_GENERIC iterator() {
 return listIterator();
}

public KEY_LIST_ITERATOR KEY_GENERIC listIterator() {
 return listIterator(0);
}

public KEY_LIST_ITERATOR KEY_GENERIC listIterator(final int index) {
 return new KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC() {
 int pos = index, last = -1;

 public boolean hasNext() { return pos < ABSTRACT_LIST.this.size(); }
 public boolean
hasPrevious() { return pos > 0; }
 public KEY_GENERIC_TYPE NEXT_KEY() { if (! hasNext()) throw new NoSuchElementException(); return
ABSTRACT_LIST.this.GET_KEY(last = pos++); }
 public KEY_GENERIC_TYPE PREV_KEY() { if (! hasPrevious()) throw new NoSuchElementException(); return
ABSTRACT_LIST.this.GET_KEY(last = --pos); }
 public int nextIndex() { return pos; }
 public int previousIndex() { return pos - 1; }
 public void add(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 ABSTRACT_LIST.this.add(pos++, k);
 last = -1;
 }
 public void set(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 ABSTRACT_LIST.this.set(last, k);
 }
 }
}

```

```

public void remove() {
 if (last == -1) throw new IllegalStateException();
 ABSTRACT_LIST.this.REMOVE_KEY(last);
 /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly.
*/
 if (last < pos) pos--;
 last = -1;
}
};
}

```

```

public boolean contains(final KEY_TYPE k) {
 return indexOf(k) >= 0;
}

```

```

public int indexOf(final KEY_TYPE k) {
 final KEY_LIST_ITERATOR KEY_GENERIC i = listIterator();
 KEY_GENERIC_TYPE e;
 while(i.hasNext()) {
 e = i.NEXT_KEY();
 if (KEY_EQUALS(k, e)) return i.previousIndex();
 }
 return -1;
}

```

```

public int lastIndexOf(final KEY_TYPE k) {
 KEY_LIST_ITERATOR KEY_GENERIC i = listIterator(size());
 KEY_GENERIC_TYPE e;
 while(i.hasPrevious()) {
 e = i.PREV_KEY();
 if (KEY_EQUALS(k, e)) return i.nextIndex();
 }
 return -1;
}

```

```

public void size(final int size) {
 int i = size();
 if (size > i) while(i++ < size) add(KEY_NULL);
 else while(i-- != size) remove(i);
}

```

```

public LIST KEY_GENERIC subList(final int from, final int to) {
 ensureIndex(from);
 ensureIndex(to);
}

```

```

if (from > to) throw new IndexOutOfBoundsException("Start index (" + from +
") is greater than end index (" + to + ")");

return new SUBLIST KEY_GENERIC(this, from, to);
}

/** Delegates to the new covariantly stronger generic method. */

@Deprecated
public LIST KEY_GENERIC SUBLIST_METHOD(final int from, final int to) {
return subList(from, to);
}

/** Removes elements of this type-specific list one-by-one.
*
* <P>This is a trivial iterator-based implementation. It is expected that
* implementations will override this method with a more optimized version.
*
*
* @param from the start index (inclusive).
* @param to the end index (exclusive).
*/

public void removeElements(final int from, final int to) {
ensureIndex(to);
KEY_LIST_ITERATOR KEY_GENERIC i = listIterator(from);
int n = to - from;
if (n < 0) throw new IllegalArgumentException("Start index (" + from + ") is greater than end index (" + to + ")");
while(n-- != 0) {
i.NEXT_KEY();
i.remove();
}
}

/** Adds elements to this type-specific
list one-by-one.
*
* <P>This is a trivial iterator-based implementation. It is expected that
* implementations will override this method with a more optimized version.
*
* @param index the index at which to add elements.
* @param a the array containing the elements.
* @param offset the offset of the first element to add.
* @param length the number of elements to add.
*/

public void addElements(int index, final KEY_GENERIC_TYPE a[], int offset, int length) {
ensureIndex(index);

```

```

if (offset < 0) throw new ArrayIndexOutOfBoundsException("Offset (" + offset + ") is negative");
if (offset + length > a.length) throw new ArrayIndexOutOfBoundsException("End index (" + (offset + length) +
") is greater than array length (" + a.length + ")");
while(length-- != 0) add(index++, a[offset++]);
}

public void addElements(final int index, final KEY_GENERIC_TYPE a[]) {
 addElements(index, a, 0, a.length);
}

/** Copies element of this type-specific
list into the given array one-by-one.
*
* <P>This is a trivial iterator-based implementation. It is expected that
* implementations will override this method with a more optimized version.
*
* @param from the start index (inclusive).
* @param a the destination array.
* @param offset the offset into the destination array where to store the first element copied.
* @param length the number of elements to be copied.
*/

public void getElements(final int from, final KEY_TYPE a[], int offset, int length) {
 KEY_LIST_ITERATOR KEY_GENERIC i = listIterator(from);
 if (offset < 0) throw new ArrayIndexOutOfBoundsException("Offset (" + offset + ") is negative");
 if (offset + length > a.length) throw new ArrayIndexOutOfBoundsException("End index (" + (offset + length) +
") is greater than array length (" + a.length + ")");
 if (from + length > size()) throw new IndexOutOfBoundsException("End index (" + (from + length) + ") is
greater than list size
(" + size() + ")");
 while(length-- != 0) a[offset++] = i.NEXT_KEY();
}

#if ! #keyclass(Reference)
private boolean valEquals(final Object a, final Object b) {
 return a == null ? b == null : a.equals(b);
}
#endif

public boolean equals(final Object o) {
 if (o == this) return true;
 if (! (o instanceof List)) return false;

 final List<?> l = (List<?>)o;
 int s = size();
 if (s != l.size()) return false;

#if #keys(primitive)

```



```

if (l instanceof LIST) {
 final KEY_LIST_ITERATOR KEY_GENERIC i1 = listIterator(), i2 = ((LIST KEY_GENERIC)l).listIterator();
 while(s-- != 0) if (i1.NEXT_KEY() != i2.NEXT_KEY()) return false;
 return true;
}
#endif

```

```

final ListIterator<?> i1 = listIterator(), i2 = l.listIterator();

```

```

#if #keyclass(Reference)
 while(s-- != 0) if (i1.next() != i2.next()) return false;
#else
 while(s-- != 0) if (! valEquals(i1.next(), i2.next())) return false;
#endif
return true;
}

```

```

#if ! #keyclass(Reference)
 /** Compares
 this list to another object. If the
 * argument is a { @link java.util.List}, this method performs a lexicographical comparison; otherwise,
 * it throws a <code>ClassCastException</code>.
 *
 * @param l a list.
 * @return if the argument is a { @link java.util.List}, a negative integer,
 * zero, or a positive integer as this list is lexicographically less than, equal
 * to, or greater than the argument.
 * @throws ClassCastException if the argument is not a list.
 */

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public int compareTo(final List<? extends KEY_GENERIC_CLASS> l) {
 if (l == this) return 0;

```

```

if (l instanceof LIST) {

```

```

 final KEY_LIST_ITERATOR KEY_GENERIC i1 = listIterator(), i2 = ((LIST KEY_GENERIC)l).listIterator();
 int r;
 KEY_GENERIC_TYPE e1, e2;

```

```

 while(i1.hasNext() && i2.hasNext()) {
 e1 = i1.NEXT_KEY();
 e2 = i2.NEXT_KEY();
 if ((r = KEY_CMP(e1, e2)) != 0) return r;
 }

```

```

 return i2.hasNext() ? -1
 : (i1.hasNext() ? 1 : 0);
}

```

```

ListIterator<? extends KEY_GENERIC_CLASS> i1 = listIterator(), i2 = l.listIterator();
int r;

while(i1.hasNext() && i2.hasNext()) {
 if ((r = ((Comparable<? super KEY_GENERIC_CLASS>)i1.next()).compareTo(i2.next())) != 0) return r;
}
return i2.hasNext() ? -1 : (i1.hasNext() ? 1 : 0);
}
#endif

/** Returns the hash code for this list, which is identical to { @link java.util.List#hashCode()}.
 *
 * @return the hash code for this list.
 */
public int hashCode() {
 KEY_ITERATOR KEY_GENERIC i = iterator();
 int h = 1, s = size();
 while (s-- != 0) {
 KEY_GENERIC_TYPE k = i.NEXT_KEY();
 h = 31 * h + KEY2JAVAHASH(k);
 }
 return h;
}

public void push(KEY_GENERIC_TYPE o) {
 add(o);
}

public KEY_GENERIC_TYPE POP() {
 if (isEmpty()) throw new NoSuchElementException();
 return REMOVE_KEY(size() - 1);
}

public KEY_GENERIC_TYPE TOP() {
 if (isEmpty()) throw new NoSuchElementException();
 return GET_KEY(
size() - 1);
}

public KEY_GENERIC_TYPE PEEK(int i) {
 return GET_KEY(size() - 1 - i);
}

#if #keys(primitive)

public boolean rem(KEY_TYPE k) {

```

```

int index = indexOf(k);
if (index == -1) return false;
REMOVE_KEY(index);
return true;
}

/** Delegates to <code>rem()</code>. */
public boolean remove(final Object o) {
return rem(KEY_OBJ2TYPE(o));
}

/** Delegates to a more generic method. */
public boolean addAll(final int index, final COLLECTION c) {
return addAll(index, (Collection<? extends KEY_CLASS>)c);
}

/** Delegates to a more generic method. */
public boolean addAll(final int index, final LIST l) {
return addAll(index, (COLLECTION)l);
}

public boolean addAll(final COLLECTION c) {
return addAll(size(), c);
}

public boolean addAll(final LIST l) {
return addAll(size(), l);
}

/** Delegates to the corresponding type-specific method. */
public void add(final int index, final KEY_CLASS ok) {
add(index,
ok.KEY_VALUE());
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS set(final int index, final KEY_CLASS ok) {
return KEY2OBJ(set(index, ok.KEY_VALUE()));
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS get(final int index) {
return KEY2OBJ(GET_KEY(index));
}

```

```

/** Delegates to the corresponding type-specific method. */
public int indexOf(final Object ok) {
 return indexOf(KEY_OBJ2TYPE(ok));
}

/** Delegates to the corresponding type-specific method. */
public int lastIndexOf(final Object ok) {
 return lastIndexOf(KEY_OBJ2TYPE(ok));
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS remove(final
int index) {
 return KEY2OBJ(REMOVE_KEY(index));
}

/** Delegates to the corresponding type-specific method. */
public void push(KEY_CLASS o) {
 push(o.KEY_VALUE());
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS pop() {
 return KEY_CLASS.valueOf(POP());
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS top() {
 return KEY_CLASS.valueOf(TOP());
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS peek(int i) {
 return KEY_CLASS.valueOf(PEEK(i));
}

#endif

```

```

public String toString() {
 final StringBuilder s = new StringBuilder();
 final KEY_ITERATOR KEY_GENERIC i = iterator();
 int n = size();
 KEY_GENERIC_TYPE
 k;
 boolean first = true;

 s.append("[");

 while(n-- != 0) {
 if (first) first = false;
 else s.append(", ");
 k = i.NEXT_KEY();
 #if #keys(reference)
 if (this == k) s.append("(this list)"); else
 #endif
 s.append(String.valueOf(k));
 }

 s.append("]");
 return s.toString();
}

```

```

public static class SUBLIST KEY_GENERIC extends ABSTRACT_LIST KEY_GENERIC implements
java.io.Serializable {

```

```

 private static final long serialVersionUID = -7046029254386353129L;
 /** The list this sublist restricts. */
 protected final LIST KEY_GENERIC l;
 /** Initial (inclusive) index of this sublist. */
 protected final int from;
 /** Final (exclusive) index of this sublist. */
 protected int to;

```

```

 private static final boolean ASSERTS = ASSERTS_VALUE;

```

```

 public SUBLIST(final LIST KEY_GENERIC l, final int from, final int to) {
 this.l = l;
 this.from = from;
 this.to = to;
 }

```

```

 private void assertRange() {
 if (ASSERTS) {
 assert from
<= l.size();
 assert to <= l.size();

```

```

 assert to >= from;
}
}

public boolean add(final KEY_GENERIC_TYPE k) {
 l.add(to, k);
 to++;
 if (ASSERTS) assertRange();
 return true;
}

public void add(final int index, final KEY_GENERIC_TYPE k) {
 ensureIndex(index);
 l.add(from + index, k);
 to++;
 if (ASSERTS) assertRange();
}

public boolean addAll(final int index, final Collection<? extends KEY_GENERIC_CLASS> c) {
 ensureIndex(index);
 to += c.size();
 if (ASSERTS) {
 boolean retVal = l.addAll(from + index, c);
 assertRange();
 return retVal;
 }
 return l.addAll(from + index, c);
}

public KEY_GENERIC_TYPE GET_KEY(int index) {
 ensureRestrictedIndex(index);
 return l.GET_KEY(from + index);
}

public KEY_GENERIC_TYPE REMOVE_KEY(int index) {
 ensureRestrictedIndex(index);
 to--;
 return l.REMOVE_KEY(from + index);
}

public KEY_GENERIC_TYPE set(int index, KEY_GENERIC_TYPE k) {
 ensureRestrictedIndex(
index);
 return l.set(from + index, k);
}

public void clear() {
 removeElements(0, size());
}

```

```

 if (ASSERTS) assertRange();
}

public int size() {
 return to - from;
}

public void getElements(final int from, final KEY_TYPE[] a, final int offset, final int length) {
 ensureIndex(from);
 if (from + length > size()) throw new IndexOutOfBoundsException("End index (" + from + length + ") is greater
than list size (" + size() + "));
 l.getElements(this.from + from, a, offset, length);
}

public void removeElements(final int from, final int to) {
 ensureIndex(from);
 ensureIndex(to);
 l.removeElements(this.from + from, this.from + to);
 this.to -= (to - from);
 if (ASSERTS) assertRange();
}

public void addElements(int index, final KEY_GENERIC_TYPE a[], int offset, int length) {
 ensureIndex(index);
 l.addElements(this.from + index, a, offset, length);
 this.to += length;
 if (
ASSERTS) assertRange();
}

public KEY_LIST_ITERATOR KEY_GENERIC listIterator(final int index) {
 ensureIndex(index);

 return new KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC() {
 int pos = index, last = -1;

 public boolean hasNext() { return pos < size(); }
 public boolean hasPrevious() { return pos > 0; }
 public KEY_GENERIC_TYPE NEXT_KEY() { if (! hasNext()) throw new NoSuchElementException(); return
l.GET_KEY(from + (last = pos++)); }
 public KEY_GENERIC_TYPE PREV_KEY() { if (! hasPrevious()) throw new NoSuchElementException(); return
l.GET_KEY(from + (last = --pos)); }
 public int nextIndex() { return pos; }
 public int previousIndex() { return pos - 1; }
 public void add(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 SUBLIST.this.add(pos++, k);
 last = -1;
 }
 };
}

```

```

 if (ASSERTS) assertRange();
 }
 public void set(KEY_GENERIC_TYPE k) {
 if (last == -1) throw
new IllegalStateException();
 SUBLIST.this.set(last, k);
 }
 public void remove() {
 if (last == -1) throw new IllegalStateException();
 SUBLIST.this.REMOVE_KEY(last);
 /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly. */
 if (last < pos) pos--;
 last = -1;
 if (ASSERTS) assertRange();
 }
};
}

public LIST KEY_GENERIC subList(final int from, final int to) {
 ensureIndex(from);
 ensureIndex(to);
 if (from > to) throw new IllegalArgumentException("Start index (" + from + ") is greater than end index (" + to +
 ")");

 return new SUBLIST KEY_GENERIC(this, from, to);
}

#if #keys(primitive)

public boolean rem(KEY_TYPE k) {
 int index = indexOf(k);
 if (index == -1) return false;
 to--;
 l.REMOVE_KEY(from + index);
 if (ASSERTS) assertRange();
 return true;
}

public boolean remove(final Object o)
{
 return rem(KEY_OBJ2TYPE(o));
}

public boolean addAll(final int index, final COLLECTION c) {
 ensureIndex(index);
 to += c.size();
 if (ASSERTS) {

```



```

boolean retVal = l.addAll(from + index, c);
assertRange();
return retVal;
}
return l.addAll(from + index, c);
}

public boolean addAll(final int index, final LIST l) {
ensureIndex(index);
to += l.size();
if (ASSERTS) {
boolean retVal = this.l.addAll(from + index, l);
assertRange();
return retVal;
}
return this.l.addAll(from + index, l);
}

#else
public boolean remove(final Object o) {
int index = indexOf(o);
if (index == -1) return false;
REMOVE_KEY(index);
return true;
}
#endif

}

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractList.drv

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\*/

package PACKAGE;

import java.util.Iterator;

/\*\* A type-specific {@link Iterator}; provides an additional method to avoid (un)boxing, and

\* the possibility to skip elements.

\*

\* @see Iterator

\*/

public interface KEY\_ITERATOR KEY\_GENERIC extends Iterator<KEY\_GENERIC\_CLASS> {

#if #keys(primitive)

/\*\*

\* Returns

the next element as a primitive type.

\*

\* @return the next element in the iteration.

\* @see Iterator#next()

\*/

KEY\_TYPE NEXT\_KEY();

#endif

/\*\* Skips the given number of elements.

\*

\* <P>The effect of this call is exactly the same as that of

\* calling {@link #next()} for `n` times (possibly stopping

\* if {@link #hasNext()} becomes false).

\*

\* @param n the number of elements to skip.

\* @return the number of elements actually skipped.

\* @see Iterator#next()

\*/

int skip( int n );

}

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Iterator.drv

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 */
```

```
package PACKAGE;
```

```
/** An abstract class facilitating the creation of type-specific iterators.
 *
 * <P>To create a type-specific iterator you need both a method returning the
 * next element as primitive type and a method returning the next element as an
 * object. However, if you inherit from this class you need
 * just one (anyone).
 *
 * <P>This class implements also a trivial version of {@link #skip(int)} that uses
 * type-specific methods; moreover, {@link #remove()} will throw an {@link
 * UnsupportedOperationException}.
 *
 * @see java.util.Iterator
 */
```

```
public abstract class KEY_ABSTRACT_ITERATOR KEY_GENERIC implements KEY_ITERATOR
KEY_GENERIC {
```

```
 protected KEY_ABSTRACT_ITERATOR() {}
```

```
 #if #keys(primitive)
```

```
 /** Delegates to the corresponding generic method. */
 public KEY_TYPE NEXT_KEY() { return next().KEY_VALUE(); }
```

```
 /** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
```

```
public KEY_GENERIC_CLASS next() { return KEY_CLASS.valueOf(NEXT_KEY()); }
```

```
#endif
```

```
/** This method just throws an {@link UnsupportedOperationException}. */
```

```
public void remove() { throw new UnsupportedOperationException(); }
```

```
/** This method just iterates the type-specific version of {@link #next()} for at most
```

```
* n
```

```
times, stopping if {@link #hasNext()} becomes false.*/
```

```
public int skip(final int n) {
 int i = n;
 while(i-- != 0 && hasNext()) NEXT_KEY();
 return n - i - 1;
}
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractIterator.drv

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```

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*
```

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* limitations under the License.
```

```
*/
```

```
package PACKAGE;
```

```
import java.util.Set;
```

```
/** A type-specific {@link Set}; provides some additional methods that use polymorphism to avoid (un)boxing.
```

```
*
```

```
* <P>Additionally, this interface strengthens (again) {@link #iterator()}.
```

```
*
```

```
* @see Set
```

\*/

```
public interface SET KEY_GENERIC extends COLLECTION KEY_GENERIC,
Set<KEY_GENERIC_CLASS> {
```

```
/** Returns a type-specific iterator on the elements of this set.
```

```
*
```

```
* <p>Note that this specification strengthens the one given in { @link java.lang.Iterable#iterator() },
```

```
* which was already strengthened in the corresponding type-specific class,
```

```
* but was weakened by the fact that this interface extends { @link Set }.
```

```
*
```

```
* @return a type-specific iterator on the elements of this set.
```

```
*/
```

```
KEY_ITERATOR KEY_GENERIC iterator());
```

```
/** Removes an element from this set.
```

```
*
```

```
* <p>Note that the corresponding method of the type-specific collection is <code>rem()</code>.
```

```
* This unfortunate situation is caused by the clash
```

```
* with the similarly named index-based method in the { @link java.util.List } interface.
```

```
*
```

```
* @see java.util.Collection#remove(Object)
```

```
*/
```

```
public boolean remove(KEY_TYPE k);
```

```
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Set.drv

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```

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```

```
*/
```

```
package PACKAGE;
```

```

import it.unimi.dsi.fastutil.BigListIterator;

/** A type-specific { @link BigListIterator}.
 *
 * <p>This interface adds a skipping method that take longs.
 *
 * @see BigListIterator
 */

public interface KEY_BIG_LIST_ITERATOR KEY_GENERIC extends KEY_BIDI_ITERATOR
KEY_GENERIC, BigListIterator<KEY_GENERIC_CLASS>
{
 #if #keys(primitive)
 void set(KEY_TYPE k);
 void add(KEY_TYPE k);
 #endif
 void set(KEY_GENERIC_CLASS k);
 void add(KEY_GENERIC_CLASS k);
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigListIterator.drv

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 */

```

```

package PACKAGE;

```

```

/** An abstract class facilitating the creation of type-specific { @linkplain it.unimi.dsi.fastutil.BidirectionalIterator
bidirectional iterators}.

```

```

 *
 * <P>To create a type-specific bidirectional iterator, besides what is needed

```

```

* for an iterator you need both a method returning the previous element
as
* primitive type and a method returning the previous element as an
* object. However, if you inherit from this class you need just one (anyone).
*
* <P>This class implements also a trivial version of { @link #back(int)} that
* uses type-specific methods.
*/

```

```

public abstract class KEY_ABSTRACT_BIDI_ITERATOR KEY_GENERIC extends
KEY_ABSTRACT_ITERATOR KEY_GENERIC implements KEY_BIDI_ITERATOR KEY_GENERIC {

```

```

protected KEY_ABSTRACT_BIDI_ITERATOR() {}

```

```

#if #keys(primitive)

```

```

/** Delegates to the corresponding generic method. */

```

```

public KEY_TYPE PREV_KEY() { return previous().KEY_VALUE(); }

```

```

/** Delegates to the corresponding type-specific method. */

```

```

public KEY_GENERIC_CLASS previous() { return KEY_CLASS.valueOf(PREV_KEY()); }

```

```

#endif

```

```

/** This method just iterates the type-specific version of { @link #previous()} for

```

```

* at most <code>n</code> times, stopping if { @link

```

```

* #hasPrevious()} becomes false. */

```

```

public int back(final int n) {

```

```

int i = n;

```

```

while(i-- != 0 &&

```

```

hasPrevious()) PREV_KEY();

```

```

return n - i - 1;

```

```

}

```

```

}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/AbstractBidirectionalIterator.drv

```

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```

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```

```

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```

```

*

```

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- \*/

```
package PACKAGE;
```

```
#if #keyclass(Object)
import java.util.Arrays;
import java.util.Comparator;
import it.unimi.dsi.fastutil.AbstractPriorityQueue;
#endif
```

```
import java.util.NoSuchElementException;
```

```
/** A type-specific array-based priority queue.
 *
 * <P>Instances of this class represent a priority queue
 * using a backing
 * array—all operations are performed directly on the array. The array is
 * enlarged as needed, but it is never shrunk. Use the { @link #trim() } method
 * to reduce its size, if necessary.
 *
 * <P>This implementation is extremely inefficient, but it is difficult to beat
 * when the size of the queue is very small.
 */
```

```
public class ARRAY_PRIORITY_QUEUE KEY_GENERIC extends ABSTRACT_PRIORITY_QUEUE
KEY_GENERIC implements java.io.Serializable {
 private static final long serialVersionUID = 1L;
```

```
/** The backing array. */
 SUPPRESS_WARNINGS_KEY_UNCHECKED
 protected transient KEY_GENERIC_TYPE array[] = KEY_GENERIC_ARRAY_CAST
 ARRAYS.EMPTY_ARRAY;
```

```
/** The number of elements in this queue. */
 protected int size;
```

```
/** The type-specific comparator used in this queue. */
 protected KEY_COMPARATOR KEY_SUPER_GENERIC c;
```

```
/** The first index, cached, if { @link #firstIndexValid } is true. */
```



```

transient protected int firstIndex;

/** Whether { @link #firstIndex } contains
a valid value. */
transient protected boolean firstIndexValid;

/** Creates a new empty queue with a given capacity and comparator.
*
* @param capacity the initial capacity of this queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public ARRAY_PRIORITY_QUEUE(int capacity, KEY_COMPARATOR KEY_SUPER_GENERIC c) {
if (capacity > 0) this.array = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[capacity];
this.c = c;
}

/** Creates a new empty queue with a given capacity and using the natural order.
*
* @param capacity the initial capacity of this queue.
*/
public ARRAY_PRIORITY_QUEUE(int capacity) {
this(capacity, null);
}

/** Creates a new empty queue with a given comparator.
*
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public ARRAY_PRIORITY_QUEUE(KEY_COMPARATOR KEY_SUPER_GENERIC c) {
this(0, c);
}

/** Creates a new empty
queue using the natural order.
*/
public ARRAY_PRIORITY_QUEUE() {
this(0, null);
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
*
* @param a an array.
* @param size the number of elements to be included in the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/

```

```

public ARRAY_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] a, int size, final KEY_COMPARATOR
KEY_SUPER_GENERIC c) {
 this(c);
 this.array = a;
 this.size = size;
}

```

```

/** Wraps a given array in a queue using a given comparator.

```

```

*

```

```

* <P>The queue returned by this method will be backed by the given array.

```

```

*

```

```

* @param a an array.

```

```

* @param c the comparator used in this queue, or <code>null</code> for the natural order.

```

```

*/

```

```

public ARRAY_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] a, final KEY_COMPARATOR
KEY_SUPER_GENERIC c) {
 this(a, a.length, c);
}

```

```

/**

```

```

Wraps a given array in a queue using the natural order.

```

```

*

```

```

* <P>The queue returned by this method will be backed by the given array.

```

```

*

```

```

* @param a an array.

```

```

* @param size the number of elements to be included in the queue.

```

```

*/

```

```

public ARRAY_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] a, int size) {
 this(a, size, null);
}

```

```

/** Wraps a given array in a queue using the natural order.

```

```

*

```

```

* <P>The queue returned by this method will be backed by the given array.

```

```

*

```

```

* @param a an array.

```

```

*/

```

```

public ARRAY_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] a) {
 this(a, a.length);
}

```

```

/** Returns the index of the smallest element. */

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

private int findFirst() {
 if (firstIndexValid) return this.firstIndex;
 firstIndexValid = true;
 int i = size;
 int firstIndex = --i;
 KEY_GENERIC_TYPE first = array[firstIndex];

 if (c == null) { while(i-- != 0) if (KEY_LESS(array[i], first)) first = array[firstIndex = i]; }
 else while(
i-- != 0) { if (c.compare(array[i], first) < 0) first = array[firstIndex = i]; }

 return this.firstIndex = firstIndex;
}

```

```

private void ensureNonEmpty() {
 if (size == 0) throw new NoSuchElementException();
}

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public void enqueue(KEY_GENERIC_TYPE x) {
 if (size == array.length) array = ARRAYS.grow(array, size + 1);
 if (firstIndexValid) {
 if (c == null) { if (KEY_LESS(x, array[firstIndex])) firstIndex = size; }
 else if (c.compare(x, array[firstIndex]) < 0) firstIndex = size;
 }
 else firstIndexValid = false;
 array[size++] = x;
}

```

```

public KEY_GENERIC_TYPE DEQUEUE() {
 ensureNonEmpty();
 final int first = findFirst();
 final KEY_GENERIC_TYPE result = array[first];
 System.arraycopy(array, first + 1, array, first, --size - first);
 #if #keyclass(Object)
 array[size] = null;
 #endif
 firstIndexValid = false;
 return result;
}

```

```

public KEY_GENERIC_TYPE FIRST() {
 ensureNonEmpty();
 return
array[findFirst()];
}

```

```

public void changed() {

```

```

ensureNonEmpty();
firstIndexValid = false;
}

public int size() { return size; }

public void clear() {
#if #keyclass(Object)
 Arrays.fill(array, 0, size, null);
#endif
 size = 0;
 firstIndexValid = false;
}

/** Trims the underlying array so that it has exactly { @link #size()} elements.
 */

public void trim() {
 array = ARRAYS.trim(array, size);
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return c; }

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 s.defaultWriteObject();
 s.writeInt(array.length);
 for(int i = 0; i < size; i++) s.WRITE_KEY(array[i]);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
 array = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[s.readInt()];
 for(int i = 0; i < size; i++) array[i] = KEY_GENERIC_CAST s.READ_KEY();
}
}

Found
in path(s):
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayPriorityQueue.drv
No license file was found, but licenses were detected in source scan.

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* limitations under the License.
*/
```

```
package PACKAGE;
```

```
import java.util.List;
import it.unimi.dsi.fastutil.BigList;
```

```
#if ! #keyclass(Reference)
```

```
/** A type-specific {@link BigList}; provides some additional methods that use polymorphism to avoid (un)boxing.
```

```
*
* <P>Additionally, this interface strengthens {@link #iterator()}, {@link #listIterator()},
* {@link #listIterator(long)} and {@link #subList(long,long)}.
*
```

```
* <P>Besides polymorphic methods, this interfaces specifies methods to copy into an array or remove contiguous
* sublists. Although the abstract implementation of this interface provides simple, one-by-one implementations
* of these methods, it is expected that concrete implementation override them with optimized versions.
```

```
* @see List
```

```
*/
```

```
public interface BIG_LIST KEY_GENERIC extends BigList<KEY_GENERIC_CLASS>, COLLECTION
KEY_GENERIC, Comparable<BigList<? extends KEY_GENERIC_CLASS>> {
#else
```

```
/** A type-specific {@link BigList}; provides some additional methods that use polymorphism to avoid (un)boxing.
```

```
*
* <P>Additionally, this interface strengthens {@link #iterator()}, {@link #listIterator()},
* {@link #listIterator(long)} and {@link #subList(long,long)}.
*
```

```
* <P>Besides polymorphic methods, this interfaces specifies methods to copy into an array or remove contiguous
* sublists. Although the abstract implementation
of this interface provides simple, one-by-one implementations
* of these methods, it is expected that concrete implementation override them with optimized versions.
```

```
* @see List
```

```
*/
```

```

public interface BIG_LIST KEY_GENERIC extends BigList<KEY_GENERIC_CLASS>, COLLECTION
KEY_GENERIC {
#endif

/** Returns a type-specific big-list iterator on this type-specific big list.
*
* @see List#iterator()
*/
KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator();

/** Returns a type-specific big-list iterator on this type-specific big list.
*
* @see List#listIterator()
*/
KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator();

/** Returns a type-specific list iterator on this type-specific big list starting at a given index.
*
* @see BigList#listIterator(long)
*/
KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(long index);

/** Returns a type-specific view of the portion of this type-specific big list from the index <code>from</code>,
inclusive, to the index <code>to</code>,
exclusive.
*
* <P>Note that this specification strengthens the one given in { @link BigList#subList(long,long)}.
*
* @see BigList#subList(long,long)
*/
BIG_LIST KEY_GENERIC subList(long from, long to);

/** Copies (hopefully quickly) elements of this type-specific big list into the given big array.
*
* @param from the start index (inclusive).
* @param a the destination big array.
* @param offset the offset into the destination big array where to store the first element copied.
* @param length the number of elements to be copied.
*/
void getElements(long from, KEY_TYPE a[], long offset, long length);

/** Removes (hopefully quickly) elements of this type-specific big list.
*
* @param from the start index (inclusive).
* @param to the end index (exclusive).
*/
void removeElements(long from, long to);

```

```

/** Add (hopefully quickly) elements to this type-specific big list.
 *
 * @param index the index at which to add elements.
 * @param a the big
array containing the elements.
 */
void addElements(long index, KEY_GENERIC_TYPE a[][]);

/** Add (hopefully quickly) elements to this type-specific big list.
 *
 * @param index the index at which to add elements.
 * @param a the big array containing the elements.
 * @param offset the offset of the first element to add.
 * @param length the number of elements to add.
 */
void addElements(long index, KEY_GENERIC_TYPE a[][], long offset, long length);

#if #keys(primitive)

/**
 * @see List#add(int,Object)
 */
void add(long index, KEY_TYPE key);

/**
 * @see List#addAll(int,java.util.Collection)
 */
boolean addAll(long index, COLLECTION c);

/**
 * @see List#addAll(int,java.util.Collection)
 */
boolean addAll(long index, BIG_LIST c);

/**
 * @see List#addAll(int,java.util.Collection)
 */
boolean addAll(BIG_LIST c);

/**
 * @see BigList#get(long)
 */
KEY_TYPE GET_KEY(long index);

/**
 * @see BigList#indexOf(Object)
 */

```

```

long indexOf(KEY_TYPE
k);

/**
 * @see BigList#lastIndexOf(Object)
 */
long lastIndexOf(KEY_TYPE k);

/**
 * @see BigList#remove(long)
 */
KEY_TYPE REMOVE_KEY(long index);

/**
 * @see BigList#set(long,Object)
 */
KEY_TYPE set(long index, KEY_TYPE k);

#endif

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigList.drv

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```

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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

```

package PACKAGE;

import it.unimi.dsi.fastutil.IndirectPriorityQueue;

/\*\* A type-specific {@link IndirectPriorityQueue}.



\*  
\* <P>Additionally, this interface strengthens { @link #comparator()}.  
\*/

```
public interface INDIRECT_PRIORITY_QUEUE extends IndirectPriorityQueue<KEY_CLASS> {

 /** Returns
 the comparator associated with this queue.
 *
 * Note that this specification strengthens the one given in { @link IndirectPriorityQueue}.
 *
 * @return the comparator associated with this queue.
 * @see IndirectPriorityQueue#comparator()
 */
 KEY_COMPARATOR comparator();
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/IndirectPriorityQueue.drv  
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```
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* fastutil: Fast & compact type-specific collections for Java
*
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* License along with this library; if not, write to the Free Software
* Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
*
*/
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/io/InspectableFileCachedInputStreamTest.java  
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```
/*
```

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\*  
\*  
\*  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleArrays.java  
\*  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteArrays.java

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectArrays.java
```

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```
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```

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```

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*
```

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```
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```

```
*/
```

```
#if #keyclass(Byte)
```

```
// HORRIBLE kluges to work around bug #6478546
```

```
private final static int MAX_IO_LENGTH = 1024 * 1024;
```

```
private static int read(final InputStream is, final byte a[], final int offset, final int length) throws IOException {
 if (length == 0) return 0;
```

```
 int read = 0, result;
```

```
 do {
```

```
 result
```

```
 = is.read(a, offset + read, Math.min(length - read, MAX_IO_LENGTH));
```

```
 if (result < 0) return read;
```

```
 read += result;
```

```
 } while(read < length);
```

```
 return read;
```

```
}
```

```
private static void write(final OutputStream outputStream, final byte a[], final int offset, final int length) throws
IOException {
```

```
 int written = 0;
```

```
 while(written < length) {
```

```
 outputStream.write(a, offset + written, Math.min(length - written, MAX_IO_LENGTH));
```

```
 written += Math.min(length - written, MAX_IO_LENGTH);
```

```
}
}
```

```
private static void write(final DataOutput dataOutput, final byte a[], final int offset, final int length) throws
IOException {
 int written = 0;
 while(written < length) {
 dataOutput.write(a, offset + written, Math.min(length - written, MAX_IO_LENGTH));
 written += Math.min(length - written, MAX_IO_LENGTH);
 }
}
```

```
// Additional read/write methods to work around the DataInput/DataOutput schizophrenia.
```

```
/** Loads bytes from a given input stream, storing them in a given array
fragment.
*
* <p>Note that this method is going to be significantly faster than { @link #loadBytes(DataInput,byte[],int,int)}
* as it uses { @link InputStream}'s bulk-read methods.
*
* @param inputStream an input stream.
* @param array an array which will be filled with data from <code>inputStream</code>.
* @param offset the index of the first element of <code>array</code> to be filled.
* @param length the number of elements of <code>array</code> to be filled.
* @return the number of elements actually read from <code>inputStream</code> (it might be less than
<code>length</code> if <code>inputStream</code> ends).
*/
public static int LOAD_KEYS(final InputStream inputStream, final KEY_TYPE[] array, final int offset, final int
length) throws IOException {
 return read(inputStream, array, offset, length);
}
```

```
/** Loads bytes from a given input stream, storing them in a given array.
*
* <p>Note that this method is going to be significantly faster than { @link #loadBytes(DataInput,byte[])}
* as it uses { @link InputStream}'s bulk-read methods.
*
* @param inputStream an input stream.
* @param array an array which will be filled with data from <code>inputStream</code>.
* @return the number of elements actually read from <code>inputStream</code> (it might be less than the array
length if <code>inputStream</code> ends).
*/
public static int LOAD_KEYS(final InputStream inputStream, final KEY_TYPE[] array) throws IOException {
 return read(inputStream, array, 0, array.length);
}
```

```
/** Stores an array fragment to a given output stream.
*
*/
```

```

* <p>Note that this method is going to be significantly faster than { @link #storeBytes(byte[],int,int,DataOutput)}
* as it uses { @link OutputStream}'s bulk-read methods.
*
* @param array an array whose elements will be written to <code>outputStream</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param
 outputStream an output stream.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final int offset, final int length, final OutputStream
outputStream) throws IOException {
 write(outputStream, array, offset, length);
}

/** Stores an array to a given output stream.
*
* <p>Note that this method is going to be significantly faster than { @link #storeBytes(byte[],DataOutput)}
* as it uses { @link OutputStream}'s bulk-read methods.
*
* @param array an array whose elements will be written to <code>outputStream</code>.
* @param outputStream an output stream.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final OutputStream outputStream) throws
IOException {
 write(outputStream, array, 0, array.length);
}

private static long read(final InputStream is, final byte a[][], final long offset, final long length) throws
IOException {
 if (length == 0) return 0;

 long read = 0;
 int segment = segment(offset);
 int displacement = displacement(offset);
 int
 result;
 do {
 result = is.read(a[segment], displacement, (int)Math.min(a[segment].length - displacement, Math.min(length -
read, MAX_IO_LENGTH)));
 if (result < 0) return read;
 read += result;
 displacement += result;
 if (displacement == a[segment].length) {
 segment++;
 displacement = 0;
 }
 } while(read < length);
}

```

```

return read;
}

private static void write(final OutputStream outputStream, final byte a[], final long offset, final long length)
throws IOException {
 if (length == 0) return;
 long written = 0;
 int toWrite;
 int segment = segment(offset);
 int displacement = displacement(offset);
 do {
 toWrite = (int)Math.min(a[segment].length - displacement, Math.min(length - written, MAX_IO_LENGTH));
 outputStream.write(a[segment], displacement, toWrite);
 written += toWrite;
 displacement += toWrite;
 if (displacement == a[segment].length) {
 segment++;
 displacement = 0;
 }
 } while(written < length);
}

```

```

private
static void write(final DataOutput dataOutput, final byte a[], final long offset, final long length) throws
IOException {
 if (length == 0) return;
 long written = 0;
 int toWrite;
 int segment = segment(offset);
 int displacement = displacement(offset);
 do {
 toWrite = (int)Math.min(a[segment].length - displacement, Math.min(length - written, MAX_IO_LENGTH));
 dataOutput.write(a[segment], displacement, toWrite);
 written += toWrite;
 displacement += toWrite;
 if (displacement == a[segment].length) {
 segment++;
 displacement = 0;
 }
 } while(written < length);
}

```

// Additional read/write methods to work around the DataInput/DataOutput schizophrenia.

```

/** Loads bytes from a given input stream, storing them in a given big-array fragment.
*

```

```

* <p>Note that this method is going to be significantly faster than { @link
#loadBytes(DataInput,byte[[[]],long,long)}
* as it uses { @link InputStream}'s bulk-read methods.
*
* @param inputStream an input stream.
* @param array a big array which will be filled with data from <code>inputStream</code>.
* @param offset the index of the first element of <code>array</code> to be filled.
* @param length the number of elements of <code>array</code> to be filled.
* @return the number of elements actually read from <code>inputStream</code> (it might be less than
<code>length</code> if <code>inputStream</code> ends).
*/
public static long LOAD_KEYS(final InputStream inputStream, final KEY_TYPE[[[]] array, final long offset, final
long length) throws IOException {
 return read(inputStream, array, offset, length);
}

/** Loads bytes from a given input stream, storing them in a given big array.
*
* <p>Note that this method is going to be significantly faster than { @link #loadBytes(DataInput,byte[[[]])}
* as it uses { @link InputStream}'s bulk-read methods.
*
* @param inputStream an input stream.
* @param array a big array which will be filled with data from <code>inputStream</code>.
* @return
the number of elements actually read from <code>inputStream</code> (it might be less than the array length if
<code>inputStream</code> ends).
*/
public static long LOAD_KEYS(final InputStream inputStream, final KEY_TYPE[[[]] array) throws IOException {
 return read(inputStream, array, 0, BIG_ARRAYS.length(array));
}

/** Stores a big-array fragment to a given output stream.
*
* <p>Note that this method is going to be significantly faster than { @link
#storeBytes(byte[[[]],long,long,DataOutput)}
* as it uses { @link OutputStream}'s bulk-read methods.
*
* @param array a big array whose elements will be written to <code>outputStream</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param outputStream an output stream.
*/
public static void STORE_KEYS(final KEY_TYPE array[[[]], final long offset, final long length, final
OutputStream outputStream) throws
IOException {
 write(outputStream, array, offset, length);
}

```

```

/** Stores a big array to a given output stream.
 *
 * <p>Note that this method is going to be significantly faster than { @link #storeBytes(byte[][],DataOutput)}
 * as it uses { @link OutputStream}'s bulk-read methods.
 *
 * @param array a big array whose elements will be written to <code>outputStream</code>.
 * @param outputStream an output stream.
 */
public static void STORE_KEYS(final KEY_TYPE array[][], final OutputStream outputStream) throws
IOException {
 write(outputStream, array, 0, BIG_ARRAYS.length(array));
}

#endif

/** Loads elements from a given data input, storing them in a given array fragment.
 *
 * @param dataInput a data input.
 * @param array an array which will be filled with data from <code>dataInput</code>.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements
 actually read from <code>dataInput</code> (it might be less than <code>length</code> if
 <code>dataInput</code> ends).
 */
public static int LOAD_KEYS(final DataInput dataInput, final KEY_TYPE[] array, final int offset, final int length)
throws IOException {
 PACKAGE.ARRAYS.ensureOffsetLength(array, offset, length);
 int i = 0;
 try {
 for(i = 0; i < length; i++) array[i + offset] = dataInput.READ_KEY();
 }
 catch(EOFException itsOk) {}
 return i;
}

/** Loads elements from a given data input, storing them in a given array.
 *
 * @param dataInput a data input.
 * @param array an array which will be filled with data from <code>dataInput</code>.
 * @return the number of elements actually read from <code>dataInput</code> (it might be less than the array
 length if <code>dataInput</code> ends).
 */
public static int LOAD_KEYS(final DataInput dataInput, final KEY_TYPE[] array) throws IOException {
 int i = 0;
 try {
 final int length = array.length;

```



```

 for(i = 0; i < length;
i++) array[i] = dataInput.READ_KEY();
 }
 catch(EOFException itsOk) {}
 return i;
}

/** Loads elements from a file given by a {@link File} object, storing them in a given array fragment.
 *
 * @param file a file.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static int LOAD_KEYS(final File file, final KEY_TYPE[] array, final int offset, final int length) throws
IOException {
 PACKAGE.ARRAYS.ensureOffsetLength(array, offset, length);

 final FileInputStream fis = new FileInputStream(file);
 #if #keyclass(Byte)
 final int result = read(fis, array, offset, length);
 fis.close();
 return result;
 #else
 final DataInputStream dis = new DataInputStream(
 new BufferedInputStream(fis));

 int i = 0;
 try {
 for(i = 0; i < length; i++) array[i + offset] = dis.READ_KEY();
 }
 catch(EOFException itsOk) {}

 dis.close();
 return i;
 #endif
}

/** Loads elements from a file given by a pathname, storing them in a given array fragment.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).

```

```

*/
public static int LOAD_KEYS(final CharSequence filename, final KEY_TYPE[] array, final int offset, final int
length) throws IOException {
 return LOAD_KEYS(new File(filename.toString()), array, offset, length);
}

/** Loads elements from a file given by a {@link File} object,
 storing them in a given array.
 *
 * @param file a file.
 * @param array an array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
 is too short).
 */
public static int LOAD_KEYS(final File file, final KEY_TYPE[] array) throws IOException {
 final FileInputStream fis = new FileInputStream(file);
 #if #keyclass(Byte)
 final int result = read(fis, array, 0, array.length);
 fis.close();
 return result;
 #else
 final DataInputStream dis = new DataInputStream(new FastBufferedInputStream(fis));

 int i = 0;
 try {
 final int length = array.length;
 for(i = 0; i < length; i++) array[i] = dis.READ_KEY();
 }
 catch(EOFException itsOk) {}

 dis.close();

 return i;
 #endif
}

/** Loads elements from a file given by a pathname, storing them in a given array.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the
 specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
 is too short).
 */
public static int LOAD_KEYS(final CharSequence filename, final KEY_TYPE[] array) throws IOException {
 return LOAD_KEYS(new File(filename.toString()), array);
}

```

```

/** Loads elements from a file given by a {@link File} object, storing them in a new array.
 *
 * <P>Note that the length of the returned array will be computed
 * dividing the specified file size by the number of bytes used to
 * represent each element.
 *
 * @param file a file.
 * @return an array filled with the content of the specified file.
 */
public static KEY_TYPE[] LOAD_KEYS(final File file) throws IOException {
 final FileInputStream fis = new FileInputStream(file);

 #if #keyclass(Boolean)
 final long length = fis.getChannel().size();
 #else
 final long length = fis.getChannel().size() / (KEY_CLASS.SIZE / 8);
 #endif

 if (length > Integer.MAX_VALUE
) {
 fis.close();
 throw new IllegalArgumentException("File too long: " + fis.getChannel().size()+ " bytes (" + length + " elements)"
);
 }

 final KEY_TYPE[] array = new KEY_TYPE[(int)length];

 #if #keyclass(Byte)
 if (read(fis, array, 0, (int)length) < length) throw new EOFException();
 fis.close();
 #else
 final DataInputStream dis = new DataInputStream(new FastBufferedInputStream(fis));
 for(int i = 0; i < length; i++) array[i] = dis.READ_KEY();
 dis.close();
 #endif
 return array;
}

/** Loads elements from a file given by a filename, storing them in a new array.
 *
 * <P>Note that the length of the returned array will be computed
 * dividing the specified file size by the number of bytes used to
 * represent each element.
 *
 * @param filename a filename.
 * @return an array filled with the content of the specified file.
 */
public static KEY_TYPE[] LOAD_KEYS(final CharSequence filename) throws IOException {

```

```

return LOAD_KEYS(new File(filename.toString()));
}

/**
Stores an array fragment to a given data output.
*
* @param array an array whose elements will be written to <code>dataOutput</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param dataOutput a data output.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final int offset, final int length, final DataOutput
dataOutput) throws IOException {
 PACKAGE.ARRAYS.ensureOffsetLength(array, offset, length);
 #if #keyclass(Byte)
 write(dataOutput, array, offset, length);
 #else
 for(int i = 0; i < length; i++) dataOutput.WRITE_KEY(array[offset + i]);
 #endif
}

/** Stores an array to a given data output.
*
* @param array an array whose elements will be written to <code>dataOutput</code>.
* @param dataOutput a data output.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final DataOutput dataOutput) throws IOException {
 #if #keyclass(Byte)
 write(
 dataOutput, array, 0, array.length);
 #else
 final int length = array.length;
 for(int i = 0; i < length; i++) dataOutput.WRITE_KEY(array[i]);
 #endif
}

/** Stores an array fragment to a file given by a { @link File } object.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param file a file.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final int offset, final int length, final File file) throws
IOException {
 PACKAGE.ARRAYS.ensureOffsetLength(array, offset, length);
 #if #keyclass(Byte)
 final OutputStream os = new FastBufferedOutputStream(new FileOutputStream(file));

```

```

write(os, array, offset, length);
os.close();
#else
final DataOutputStream dos = new DataOutputStream(new FastBufferedOutputStream(new FileOutputStream(file
)));
for(int i
= 0; i < length; i++) dos.WRITE_KEY(array[offset + i]);
dos.close();
#endif
}

/** Stores an array fragment to a file given by a pathname.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param filename a filename.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final int offset, final int length, final CharSequence
filename) throws IOException {
STORE_KEYS(array, offset, length, new File(filename.toString()));
}

/** Stores an array to a file given by a { @link File } object.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param file a file.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final File file) throws IOException {
#if #keyclass(Byte)
final OutputStream os = new FastBufferedOutputStream(new FileOutputStream(
file));
write(os, array, 0, array.length);
os.close();
#else
final int length = array.length;
final DataOutputStream dos = new DataOutputStream(new FastBufferedOutputStream(new FileOutputStream(file
)));
for(int i = 0; i < length; i++) dos.WRITE_KEY(array[i]);
dos.close();
#endif
}

/** Stores an array to a file given by a pathname.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param filename a filename.
*/

```

```

public static void STORE_KEYS(final KEY_TYPE array[], final CharSequence filename) throws IOException {
 STORE_KEYS(array, new File(filename.toString()));
}

```

```

/** Loads elements from a given data input, storing them in a given big-array fragment.

```

```

*

```

```

* @param dataInput a data input.

```

```

* @param array a big array which will be filled with data from <code>dataInput</code>.

```

```

* @param offset the index of the first element of <code>bigArray</code> to be filled.

```

```

* @param length the number of elements of <code>bigArray</code>

```

```

to be filled.

```

```

* @return the number of elements actually read from <code>dataInput</code> (it might be less than
<code>length</code> if <code>dataInput</code> ends).

```

```

*/

```

```

public static long LOAD_KEYS(final DataInput dataInput, final KEY_TYPE[][] array, final long offset, final long
length) throws IOException {

```

```

 PACKAGE.BIG_ARRAYS.ensureOffsetLength(array, offset, length);

```

```

 long c = 0;

```

```

 try {

```

```

 for(int i = segment(offset); i < segment(offset + length + SEGMENT_MASK); i++) {

```

```

 final KEY_TYPE[] t = array[i];

```

```

 final int l = (int)Math.min(t.length, offset + length - start(i));

```

```

 for(int d = (int)Math.max(0, offset - start(i)); d < l; d++) {

```

```

 t[d] = dataInput.READ_KEY();

```

```

 c++;

```

```

 }

```

```

 }

```

```

 }

```

```

 catch(EOFException itsOk) {}

```

```

 return c;

```

```

}

```

```

/** Loads elements from a given data input, storing them in a given big array.

```

```

*

```

```

* @param dataInput a data input.

```

```

* @param array a big array which will be filled with data from <code>dataInput</code>.

```

```

* @return

```

```

the number of elements actually read from <code>dataInput</code> (it might be less than the array length if
<code>dataInput</code> ends).

```

```

*/

```

```

public static long LOAD_KEYS(final DataInput dataInput, final KEY_TYPE[][] array) throws IOException {

```

```

 long c = 0;

```

```

 try {

```

```

 for(int i = 0; i < array.length; i++) {

```

```

 final KEY_TYPE[] t = array[i];
 final int l = t.length;
 for(int d = 0; d < l; d++) {
 t[d] = dataInput.READ_KEY();
 c++;
 }
}
}
catch(EOFException itsOk) {}
return c;
}

/** Loads elements from a file given by a {@link File} object, storing them in a given big-array fragment.
 *
 * @param file a file.
 * @param array a big array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code>
 * if the file is too short).
 */
public static long LOAD_KEYS(final File file, final KEY_TYPE[][] array, final long offset, final long length)
throws IOException {
 PACKAGE.BIG_ARRAYS.ensureOffsetLength(array, offset, length);

 final FileInputStream fis = new FileInputStream(file);
 #if #keyclass(Byte)
 final long result = read(fis, array, offset, length);
 fis.close();
 return result;
 #else
 final DataInputStream dis = new DataInputStream(new FastBufferedInputStream(fis));

 long c = 0;
 try {
 for(int i = segment(offset); i < segment(offset + length + SEGMENT_MASK); i++) {
 final KEY_TYPE[] t = array[i];
 final int l = (int)Math.min(t.length, offset + length - start(i));
 for(int d = (int)Math.max(0, offset - start(i)); d < l; d++) {
 t[d] = dis.READ_KEY();
 c++;
 }
 }
 }
 catch(EOFException itsOk) {}
 dis.close();
 return c;
 #endif
}

```

```

}

/** Loads elements from a file given by a pathname, storing them in a given big-array fragment.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
 the file is too short).
 */
public static long LOAD_KEYS(final CharSequence filename, final KEY_TYPE[][] array, final long offset, final
long length) throws IOException {
 return LOAD_KEYS(new File(filename.toString()), array, offset, length);
}

/** Loads elements from a file given by a { @link File } object, storing them in a given big array.
 *
 * @param file a file.
 * @param array a big array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
 is too short).
 */
public static long
LOAD_KEYS(final File file, final KEY_TYPE[][] array) throws IOException {
 final FileInputStream fis = new FileInputStream(file);
 #if #keyclass(Byte)
 final long result = read(fis, array, 0, BIG_ARRAYS.length(array));
 fis.close();
 return result;
 #else
 final DataInputStream dis = new DataInputStream(new FastBufferedInputStream(fis));

 long c = 0;
 try {
 for(int i = 0; i < array.length; i++) {
 final KEY_TYPE[] t = array[i];
 final int l = t.length;
 for(int d = 0; d < l; d++) {
 t[d] = dis.READ_KEY();
 c++;
 }
 }
 }
 catch(EOFException itsOk) {}

 dis.close();

```



```

return c;
#endif
}

/** Loads elements from a file given by a pathname, storing them in a given big array.
 *
 * @param filename a filename.
 * @param array a big array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
 is too short).
 */
public static long LOAD_KEYS(
 final CharSequence filename, final KEY_TYPE[][] array) throws IOException {
 return LOAD_KEYS(new File(filename.toString()), array);
}

/** Loads elements from a file given by a { @link File } object, storing them in a new big array.
 *
 * <P>Note that the length of the returned big array will be computed
 * dividing the specified file size by the number of bytes used to
 * represent each element.
 *
 * @param file a file.
 * @return a big array filled with the content of the specified file.
 */
public static KEY_TYPE[][] LOAD_KEYS_BIG(final File file) throws IOException {
 final FileInputStream fis = new FileInputStream(file);

 #if #keyclass(Boolean)
 final long length = fis.getChannel().size();
 #else
 final long length = fis.getChannel().size() / (KEY_CLASS.SIZE / 8);
 #endif

 final KEY_TYPE[][] array = BIG_ARRAYS.newBigArray(length);

 #if #keyclass(Byte)
 if (read(fis, array, 0, length) < length) throw new EOFException();
 fis.close();
 #else
 final DataInputStream
 dis = new DataInputStream(new FastBufferedInputStream(fis));

 for(int i = 0; i < array.length; i++) {
 final KEY_TYPE[] t = array[i];
 final int l = t.length;
 for(int d = 0; d < l; d++) t[d] = dis.READ_KEY();
 }
 #endif
}

```

```

dis.close();
#endif
return array;
}

/** Loads elements from a file given by a filename, storing them in a new big array.
 *
 * <P>Note that the length of the returned big array will be computed
 * dividing the specified file size by the number of bytes used to
 * represent each element.
 *
 * @param filename a filename.
 * @return a big array filled with the content of the specified file.
 */
public static KEY_TYPE[][] LOAD_KEYS_BIG(final CharSequence filename) throws IOException {
return LOAD_KEYS_BIG(new File(filename.toString()));
}

/** Stores an array fragment to a given data output.
 *
 * @param array an array whose elements will be written to <code>dataOutput</code>.
 * @param offset the index of the first element of <code>array</code>
to be written.
 * @param length the number of elements of <code>array</code> to be written.
 * @param dataOutput a data output.
 */
public static void STORE_KEYS(final KEY_TYPE array[][], final long offset, final long length, final DataOutput
dataOutput) throws IOException {
PACKAGE.BIG_ARRAYS.ensureOffsetLength(array, offset, length);
#if #keyclass(Byte)
write(dataOutput, array, offset, length);
#else
for(int i = segment(offset); i < segment(offset + length + SEGMENT_MASK); i++) {
final KEY_TYPE[] t = array[i];
final int l = (int)Math.min(t.length, offset + length - start(i));
for(int d = (int)Math.max(0, offset - start(i)); d < l; d++) dataOutput.WRITE_KEY(t[d]);
}
#endif
}

/** Stores a big array to a given data output.
 *
 * @param array a big array whose elements will be written to <code>dataOutput</code>.
 * @param dataOutput a data output.
 */
public static void STORE_KEYS(final KEY_TYPE array[][], final DataOutput dataOutput) throws IOException

```

```

{
#if #keyclass(Byte)
write(dataOutput, array, 0, BIG_ARRAYS.length(array));
#else
for(int i = 0; i < array.length; i++) {
final KEY_TYPE[] t = array[i];
final int l = t.length;
for(int d = 0; d < l; d++) dataOutput.WRITE_KEY(t[d]);
}
#endif
}

/** Stores a big-array fragment to a file given by a {@link File} object.
*
* @param array a big array whose elements will be written to <code>filename</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param file a file.
*/
public static void STORE_KEYS(final KEY_TYPE array[][] , final long offset, final long length, final File file)
throws IOException {
PACKAGE.BIG_ARRAYS.ensureOffsetLength(array, offset, length);
#if #keyclass(Byte)
final OutputStream os = new FastBufferedOutputStream(new FileOutputStream(file));
write(os, array, offset, length);
os.close();
#else
final DataOutputStream
dos = new DataOutputStream(new FastBufferedOutputStream(new FileOutputStream(file)));
for(int i = segment(offset); i < segment(offset + length + SEGMENT_MASK); i++) {
final KEY_TYPE[] t = array[i];
final int l = (int)Math.min(t.length, offset + length - start(i));
for(int d = (int)Math.max(0, offset - start(i)); d < l; d++) dos.WRITE_KEY(t[d]);
}
dos.close();

#endif
}

/** Stores a big-array fragment to a file given by a pathname.
*
* @param array a big array whose elements will be written to <code>filename</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param filename a filename.
*/
public static void STORE_KEYS(final KEY_TYPE array[][] , final long offset, final long length, final
CharSequence filename) throws IOException {

```

```

STORE_KEYS(array, offset, length, new File(filename.toString()));
}

/** Stores
an array to a file given by a { @link File} object.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param file a file.
*/
public static void STORE_KEYS(final KEY_TYPE array[][], final File file) throws IOException {
 #if #keyclass(Byte)
 final OutputStream os = new FastBufferedOutputStream(new FileOutputStream(file));
 write(os, array, 0, BIG_ARRAYS.length(array));
 os.close();
 #else
 final DataOutputStream dos = new DataOutputStream(new FastBufferedOutputStream(new FileOutputStream(file
)));
 for(int i = 0; i < array.length; i++) {
 final KEY_TYPE[] t = array[i];
 final int l = t.length;
 for(int d = 0; d < l; d++) dos.WRITE_KEY(t[d]);
 }
 dos.close();
 #endif
}

/** Stores a big array to a file given by a pathname.
*
* @param array a big array whose elements will be written to <code>filename</code>.
* @param filename a filename.
*/
public static void STORE_KEYS(final KEY_TYPE array[][], final CharSequence filename
) throws IOException {
 STORE_KEYS(array, new File(filename.toString()));
}

/** Stores the element returned by an iterator to a given data output.
*
* @param i an iterator whose output will be written to <code>dataOutput</code>.
* @param dataOutput a filename.
*/
public static void STORE_KEYS(final KEY_ITERATOR i, final DataOutput dataOutput) throws IOException {
 while(i.hasNext()) dataOutput.WRITE_KEY(i.NEXT_KEY());
}

```

```

/** Stores the element returned by an iterator to a file given by a {@link File} object.
 *
 * @param i an iterator whose output will be written to <code>filename</code>.
 * @param file a file.
 */
public static void STORE_KEYS(final KEY_ITERATOR i, final File file) throws IOException {
 final DataOutputStream dos = new DataOutputStream(new FastBufferedOutputStream(new FileOutputStream(file
)));
 while(i.hasNext()) dos.WRITE_KEY(i.NEXT_KEY());
 dos.close();
}

```

```

/** Stores the element returned by an iterator to a file given by a pathname.
 *
 * @param i an iterator whose output will be written to <code>filename</code>.
 * @param filename a filename.
 */
public static void STORE_KEYS(final KEY_ITERATOR i, final CharSequence filename) throws IOException {
 STORE_KEYS(i, new File(filename.toString()));
}

```

/\*\* A wrapper that exhibits the content of a data input stream as a type-specific iterator. \*/

```

final private static class KEY_DATA_INPUT_WRAPPER extends KEY_ABSTRACT_ITERATOR {
 final private DataInput dataInput;
 private boolean toAdvance = true;
 private boolean endOfProcess = false;
 private KEY_TYPE next;

```

```

 public KEY_DATA_INPUT_WRAPPER(final DataInput dataInput) {
 this.dataInput = dataInput;
 }

```

```

 public boolean hasNext() {
 if (! toAdvance) return ! endOfProcess;

```

```

 toAdvance = false;

```

```

 try {
 next = dataInput.READ_KEY();
 }
 catch(EOFException eof) {
 endOfProcess = true;
 }
 catch(IOException rethrow) { throw new RuntimeException(rethrow); }

```

```

 return ! endOfProcess;

```

```

 }

```

```

public KEY_TYPE
NEXT_KEY() {
 if (! hasNext()) throw new NoSuchElementException();
 toAdvance = true;
 return next;
}
}

/** Wraps the given data input stream into an iterator.
 *
 * @param dataInput a data input.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR(final DataInput dataInput) {
 return new KEY_DATA_INPUT_WRAPPER(dataInput);
}

/** Wraps a file given by a {@link File} object into an iterator.
 *
 * @param file a file.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR(final File file) throws IOException {
 return new KEY_DATA_INPUT_WRAPPER(new DataInputStream(new FastBufferedInputStream(new
 FileInputStream(file))));
}

/** Wraps a file given by a pathname into an iterator.
 *
 * @param filename a filename.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR(final CharSequence filename) throws IOException {
 return AS_KEY_ITERATOR(new File(filename.toString()));
}

/** Wraps a file given by a {@link File} object into an iterable object.
 *
 * @param file a file.
 */
public
static KEY_ITERABLE AS_KEY_ITERABLE(final File file) {
 return new KEY_ITERABLE() {
 public KEY_ITERATOR iterator() {
 try {
 return AS_KEY_ITERATOR(file);
 }
 }
 catch(IOException e) {

```

```

 throw new RuntimeException(e);
 }
}
};
}

/** Wraps a file given by a pathname into an iterable object.
 *
 * @param filename a filename.
 */
public static KEY_ITERABLE AS_KEY_ITERABLE(final CharSequence filename) {
 return new KEY_ITERABLE() {
 public KEY_ITERATOR iterator() {
 try {
 return AS_KEY_ITERATOR(filename);
 }
 catch(IOException e) {
 throw new RuntimeException(e);
 }
 }
 };
}
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BinIOFragment.drv  
 No license file was found, but licenses were detected in source scan.

```

/*
 * Copyright (C) 2002-2015 Sebastiano Vigna
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntLinkedOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2FloatSortedMap.java

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractIntComparator.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ObjectFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2FloatFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObjectBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ObjectMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ObjectOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2CharOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ObjectAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ByteSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ObjectSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2BooleanRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ByteRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2IntLinkedOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2BooleanFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2LongSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2CharMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ObjectRBTreeMap.java
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatLinkedOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatArrayList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharOpenCustomHashMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2LongSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanComparator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractCharList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2LongMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatBigLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2DoubleSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceOpenHashBigSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ReferenceSortedMap.java  
\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2FloatSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2FloatAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2CharMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2DoubleOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2BooleanMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteSets.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortAVLTreeMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBidirectionalIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2BooleanSortedMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ReferenceSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2IntFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceCollection.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2FloatMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatComparator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2BooleanFunction.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteArrayList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortIterable.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongList.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/doubles/Double2BooleanAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2FloatLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2ShortSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2LongOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractReference2ReferenceMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2FloatSortedMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/IntComparator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2CharFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/ShortAVLTreeSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2IntLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/booleans/BooleanHash.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2CharMaps.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/FloatHash.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2FloatRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ByteFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2BooleanOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2DoubleLinkedOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ShortFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2CharOpenHashMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2LongLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanRBTreeMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2IntFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ReferenceMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatSortedSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2DoubleSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteRBTreeMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ByteFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2CharMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2FloatFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2IntMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ReferenceSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongSortedMaps.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/Hash.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2IntSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ByteMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ByteFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2CharFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ObjectSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2BooleanMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteOpenHashMap.java  
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 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortListIterator.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceRBTreeMap.java  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectLists.java  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ObjectMap.java  
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jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/booleans/BooleanBigListIterators.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2CharLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2DoubleMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/AbstractInt2BooleanSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ByteSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/ByteBigLists.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2BooleanFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2DoubleAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2IntOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/Double2ByteOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2ObjectOpenCustomHashMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2LinkedOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ReferenceSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2FloatFunction.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongBidirectionalIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2IntAVLTreeMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatOpenHashMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortSortedSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2CharMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntSets.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortLinkedOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2DoubleFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ObjectMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortBidirectionalIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectSortedSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2DoubleAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObjectList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharAVLTreeMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteOpenCustomHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2CharFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ShortMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleComparator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectLinkedOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2DoubleMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntFunction.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteOpenCustomHashMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongCollection.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortArrayList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2DoubleMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharOpenHashMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharLinkedOpenCustomHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/HashCommon.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatSortedMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteLinkedOpenHashMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ObjectSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2DoubleFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ByteMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/shorts/Short2BooleanOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2CharFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntLinkedOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortLinkedOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloatIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ByteOpenHashMap.java
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jar/it/unimi/dsi/fastutil/bytes/Byte2CharRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2CharMap.java
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jar/it/unimi/dsi/fastutil/AbstractStack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2FloatFunction.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanRBTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectOpenCustomHashSet.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteRBTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2DoubleMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectFunction.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteFunctions.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceFunctions.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ShortFunctions.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2CharSortedMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntLists.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectRBTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleBigListIterators.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatListIterator.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntBidirectionalIterator.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ByteFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectOpenCustomHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ReferenceSortedMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongSortedMaps.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2FloatSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatRBTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/objects/Object2ByteLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2CharSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2LongFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractInt2LongMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ObjectFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ShortOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloatStack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectLinkedOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ByteMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ByteMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2DoubleRBTreeMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2LongMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ObjectFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2BooleanFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReferenceCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2BooleanAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2LongSortedMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractInt2ShortFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2FloatOpenCustomHashMap.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortSortedMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2LongSortedMap.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2CharFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceFunctions.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceSortedMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectLinkedOpenHashSet.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleRBTreeSet.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharBigListIterators.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2DoubleFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharBigArrayBigList.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortRBTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharList.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ReferenceRBTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteIterators.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2CharMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceOpenCustomHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ReferenceMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/longs/Long2ReferenceAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/ShortCollection.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2DoubleOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2DoubleMaps.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2LongSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2DoubleMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/Float2LongLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/Double2ByteFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractObject2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ObjectIterator.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/AbstractChar2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2ReferenceLinkedOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ObjectListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/LongList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractReference2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2CharFunction.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/ByteBigArrayBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2ShortSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ObjectOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/Float2ObjectOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/Double2DoubleOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Object2LongMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/ints/Int2DoubleOpenCustomHashMap.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/DoubleBidirectionalIterator.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/AbstractReference2FloatSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/chars/AbstractChar2LongFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/ints/IntSortedSet.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/chars/Char2ObjectOpenCustomHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/chars/Char2CharSortedMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/Long2ReferenceSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Object2CharLinkedOpenCustomHashMap.java  
 \*  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleCollection.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/ints/IntArrayList.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/int/Int2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/ByteBigListIterators.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/int/AbstractInt2BooleanMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2ShortOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/Double2DoubleFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2DoubleLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/DoubleCollection.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractReferenceList.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/ShortOpenCustomHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2IntOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/ByteLinkedOpenCustomHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/int/Int2BooleanOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractObject2BooleanFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2ShortSortedMaps.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2FloatSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2DoubleFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2CharLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2LongOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ObjectAVLTreeSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/LongCollections.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2IntMaps.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ObjectSortedMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ObjectOpenCustomHashMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongSortedSets.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2FloatMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractCharBidirectionalIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObjectIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2FloatMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/booleans/BooleanList.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2ShortSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2FloatFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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jar/it/unimi/dsi/fastutil/int/AbstractInt2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/AbstractShortBigListIterator.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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jar/it/unimi/dsi/fastutil/bytes/AbstractByteBidirectionalIterator.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntStack.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2FloatSortedMaps.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatLinkedOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2DoubleMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2ReferenceSortedMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanAVLTreeMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2FloatSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongIterable.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ReferenceMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2CharFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatBigListIterator.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2BooleanOpenCustomHashMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectBigListIterators.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatOpenHashSet.java  
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\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractBytePriorityQueue.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2IntFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2IntFunction.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2LongMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2DoubleSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLongPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2LongSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2CharMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2IntSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2LongFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2FloatOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2FloatSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2LongOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ShortFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ObjectLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractChar2FloatMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ObjectFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/Stack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceCollections.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharHash.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ReferenceAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2BooleanSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2IntAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLongStack.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2IntSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/int/AbstractInt2ByteFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ObjectFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/chars/AbstractCharCollection.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Reference2CharOpenCustomHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/shorts/ShortComparator.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/floats/Float2DoubleSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/Long2LongAVLTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/bytes/AbstractByte2BooleanFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/ObjectBigArrayBigList.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/Long2IntFunctions.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Object2ObjectSortedMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/Double2BooleanFunction.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/floats/FloatIterators.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/bytes/Byte2FloatFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/AbstractReference2ShortFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/DoubleBigArrayBigList.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Object2ObjectSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Object2CharMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/Long2ShortOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/Double2IntAVLTreeMap.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/int/AbstractInt2IntFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/chars/Char2ObjectFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/Double2FloatLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongBigListIterators.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2DoubleMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntMaps.java

\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2BooleanFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteAVLTreeMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2IntMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ByteMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ByteSortedMap.java

\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ObjectMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2LongMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ReferenceFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatAVLTreeMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2DoubleFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2IntOpenHashMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObjectCollection.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/floats/Float2LongSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2CharLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2BooleanMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ByteOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2CharAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2BooleanOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ByteFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2ShortMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2CharMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleBidirectionalIterator.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReference2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2LongMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntRBTreeSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2IntLinkedOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2IntLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2DoubleAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanRBTreeMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObjectListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2IntMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortStack.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharSortedSets.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShortCollection.java

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* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByteList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2LongSortedMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractInt2LongFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ObjectOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReference2BooleanMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2LongOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ObjectLinkedOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2DoubleSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2IntFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ByteSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongLinkedOpenCustomHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2FloatLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractCharListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2ObjectFunctions.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ShortSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ShortRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2ObjectOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractInt2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/chars/Char2ObjectRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2ShortAVLTreeMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2IntAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2LongLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2ShortAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/Long2ReferenceOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2ReferenceSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2ShortRBTreeMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/Float2ObjectSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/AbstractCharSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2ShortMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractObject2ReferenceSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2ShortOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2ReferenceLinkedOpenHashMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/ShortSets.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2BooleanMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2ShortFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2LongSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2ObjectFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2FloatSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2DoubleSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortIterator.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectRBTreeSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2IntRBTreeMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ObjectMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2DoubleSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatBidirectionalIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2BooleanFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteFunction.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleLinkedOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2CharMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntOpenCustomHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharMap.java  
\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanCollection.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortHash.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2LongFunctions.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharOpenCustomHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatSortedSets.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntOpenCustomHashMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntPriorityQueue.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortIterators.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ByteSortedMap.java  
\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2ObjectMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2BooleanFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2IntOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectRBTreeMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2DoubleMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongHash.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceMaps.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ShortLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatAVLTreeSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleLinkedOpenCustomHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortPriorityQueue.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ByteMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleRBTreeMap.java  
\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2IntFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2CharMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectIterators.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ObjectFunctions.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2BooleanFunction.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2DoubleSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteLinkedOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteAVLTreeMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceLinkedOpenHashMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractCharComparator.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ShortRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleIterators.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2LongMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2DoubleFunction.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ShortMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ObjectMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2FloatSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortList.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2CharFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2LongSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongArrayFrontCodedList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ObjectLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongSets.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractInt2LongSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2LongMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteLinkedOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2LongMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatBigListIterators.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortBigArrayBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortFunction.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ObjectMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharCollection.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2DoubleSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectMaps.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2LongFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2BooleanMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2LongSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByteCollection.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2BooleanMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleSortedMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ObjectMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2IntSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleSortedSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatOpenHashMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ByteFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ReferenceSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceOpenHashMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2FloatMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2DoubleSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanIterable.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2BooleanSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleSortedSets.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharRBTreeMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntAVLTreeMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortSet.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ReferenceMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongSortedSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2FloatAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ObjectMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatRBTreeMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2ObjectOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2FloatRBTreeMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2FloatFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ReferenceOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2DoubleSortedMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongRBTreeSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatRBTreeSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanBigLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleSets.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2CharFunction.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2BooleanFunctions.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2FloatMaps.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleSet.java  
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jar/it/unimi/dsi/fastutil/objects/Object2DoubleFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2CharSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ObjectSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ObjectSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2ObjectFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2IntLinkedOpenHashMap.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatSets.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ShortOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntCollection.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2BooleanAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2ByteFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReference2ReferenceFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2IntRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ReferenceMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2CharSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ObjectOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2LongMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2IntFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2FloatFunctions.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Reference2ByteOpenHashMap.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReference2ObjectSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ReferenceFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ShortFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceBigLists.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteOpenCustomHashMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatRBTreeMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleAVLTreeMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2CharMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleOpenCustomHashMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanLinkedOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ShortMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2LongFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleListIterator.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2FloatFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2CharAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2ShortLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/AbstractLong2DoubleSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2ReferenceAVLTreeMap.java  
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jar/it/unimi/dsi/fastutil/chars/AbstractChar2ByteSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/DoubleSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2IntAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractReference2CharMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/AbstractLong2ReferenceSortedMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/AbstractByteBigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/Float2CharFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/Float2FloatFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/IntBigLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2CharFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2BooleanLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/AbstractInt2FloatSortedMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ReferenceSortedSets.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ObjectSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2ObjectSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/IntHash.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ByteMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteStack.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectSets.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2LongFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2FloatFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatCollection.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanLinkedOpenHashMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2DoubleMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleOpenCustomHashSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ShortSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongLists.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2LongFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2ReferenceMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectIterable.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharSortedSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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 jar/it/unimi/dsi/fastutil/floats/Float2ReferenceSortedMap.java  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/LongStack.java  
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 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/AbstractDoublePriorityQueue.java  
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 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/DoubleArrayList.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Reference2IntFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceRBTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/floats/Float2ObjectOpenHashMap.java



\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceAVLTreeMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongOpenCustomHashSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2BooleanRBTreeMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2LongOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2LongFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2IntSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2LongFunction.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2CharRBTreeMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ReferenceSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ObjectOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ShortLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ReferenceFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntFunction.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2CharFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ReferenceSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ObjectOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBigArrayBigList.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntOpenHashBigSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2CharFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/ints/AbstractInt2DoubleMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/DoubleOpenHashSet.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/FloatCollections.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2ReferenceRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2IntFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/AbstractChar2BooleanSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/Float2FloatAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleStack.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/booleans/BooleanCollections.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/FloatBigArrayBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2ObjectMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/Byte2FloatSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/AbstractFloatList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/ByteSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2ByteSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ReferenceSortedSet.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ShortFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2CharOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/AbstractFloatBidirectionalIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractReference2ObjectFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanStack.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2BooleanLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/Double2BooleanOpenHashMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2FloatSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ObjectAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2FloatMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2DoubleRBTreeMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2BooleanMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2LongRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortArrayFrontCodedList.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2DoubleSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ObjectFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectArrayList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteCollection.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ByteMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanSortedMaps.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ByteMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ReferenceLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2BooleanMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharArrayList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObjectSet.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteAVLTreeMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ShortFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2LongFunction.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ObjectMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2LongOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2FloatLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByteListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2DoubleMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2LongMaps.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortBigLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2IntSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2FloatOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ObjectSortedMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ShortOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntStack.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortBigListIterators.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ReferenceFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2FloatSortedMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanFunctions.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntSortedMaps.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ReferenceOpenCustomHashMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ByteSortedMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/Function.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ByteFunction.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanFunction.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatComparator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ShortFunction.java  
\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ShortSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2ByteOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanBidirectionalIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ByteMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanBigArrayBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceList.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2FloatFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharBidirectionalIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractCharBigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractCharStack.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2ReferenceSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatIterable.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ShortLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortSortedSets.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2IntMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongBigLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2LongRBTreeMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharComparator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/objects/AbstractReference2BooleanSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/Long2ByteFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/LongOpenHashBigSet.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2CharSortedMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/AbstractReference2ByteMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/Long2LongLinkedOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Object2ShortAVLTreeMap.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/Double2ByteLinkedOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Reference2ShortMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Object2ShortFunction.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/Long2LongOpenCustomHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/AbstractObject2FloatMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/ints/Int2ReferenceOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleOpenHashMap.java  
 \*  
 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/ints/IntLinkedOpenHashSet.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2DoubleMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/AbstractLong2ReferenceMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/shorts/Short2IntMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/floats/Float2IntAVLTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/ints/Int2FloatRBTreeMap.java  
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 \*  
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 jar/it/unimi/dsi/fastutil/floats/Float2CharOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/bytes/ByteAVLTreeSet.java



\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2CharSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2DoubleLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ShortMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2IntLinkedOpenHashMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2DoubleSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ReferenceSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ReferenceOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatList.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectSortedMaps.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanArrayList.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatCollection.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2DoubleLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2DoubleSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2BooleanMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2FloatMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2FloatAVLTreeMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2LongRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2LongAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2ByteMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongLinkedOpenHashSet.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2BooleanLinkedOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByteSet.java
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jar/it/unimi/dsi/fastutil/chars/AbstractCharPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanLists.java
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jar/it/unimi/dsi/fastutil/chars/Char2ReferenceAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2IntFunctions.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceBigArrayBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanSets.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2FloatOpenCustomHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractChar2DoubleMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongOpenHashSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceArrayList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntCollections.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2BooleanSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteComparator.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2ReferenceMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2LongSortedMaps.java  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2ReferenceFunction.java  
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 /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanAVLTreeMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectSet.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanFunctions.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongMaps.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ShortOpenCustomHashMap.java  
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 \*  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleMap.java  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2IntOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleIterable.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortSortedMaps.java  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/objects/Reference2IntFunctions.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/longs/Long2FloatOpenHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/shorts/Short2FloatSortedMap.java  
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 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/shorts/AbstractShort2LongMap.java  
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 jar/it/unimi/dsi/fastutil/objects/Reference2ByteOpenCustomHashMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/shorts/Short2ShortOpenHashMap.java  
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 jar/it/unimi/dsi/fastutil/objects/AbstractReference2ShortMap.java  
 \* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
 jar/it/unimi/dsi/fastutil/chars/AbstractChar2DoubleFunction.java  
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 jar/it/unimi/dsi/fastutil/doubles/AbstractDouble2BooleanFunction.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2ByteOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ByteFunctions.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatStack.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleAVLTreeSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2FloatLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2LongMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ShortFunction.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleSortedMaps.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ReferenceOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2DoubleMaps.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2CharSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2ShortMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2CharMap.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2DoubleSortedMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2CharSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongComparator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ObjectAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ShortAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleBigLists.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2BooleanFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2BooleanSortedMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2DoubleFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2CharFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloat2IntSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2BooleanFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2BooleanSortedMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2CharSortedMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2LongSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2IntMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/AbstractIntCollection.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/IntIterable.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2LongAVLTreeMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractObject2ReferenceFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2IntRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongBigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2BooleanFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2FloatMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanBigListIterator.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ByteMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2FloatAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2LongOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2ByteMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2BooleanMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2FloatMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2IntFunctions.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/Byte2LongFunctions.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/Long2ReferenceFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/Char2LongAVLTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2LongOpenHashMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/Short2BooleanFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2ShortFunction.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObject2BooleanMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2IntMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/AbstractByteIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/Int2ObjectSortedMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/Object2BooleanRBTreeMap.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/AbstractLong2CharFunction.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/Double2FloatMaps.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/Float2BooleanSortedMaps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/AbstractInt2ReferenceMap.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/AbstractIntBigListIterator.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2DoubleLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2LongSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntSortedSets.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2ShortSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharRBTreeSet.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2CharMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2BooleanOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2ObjectMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2BooleanMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2LongOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2LongFunctions.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2FloatOpenCustomHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ReferenceSets.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2IntFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2DoubleLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectCollections.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/Short2DoubleLinkedOpenHashMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShort2IntMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

jar/it/unimi/dsi/fastutil/ints/Int2CharLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/AbstractLongSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2LongLinkedOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractReference2ByteSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2ByteSortedMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/LongSet.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/FloatOpenCustomHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2ShortAVLTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2ObjectFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2ReferenceOpenCustomHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/Float2IntFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/AbstractByteStack.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/DoubleStack.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/Char2DoubleFunction.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2ShortFunctions.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/IntOpenHashSet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/Double2DoubleMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/Int2FloatMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/ShortRBTreeSet.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/Float2LongRBTreeMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Object2FloatMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortLinkedOpenCustomHashSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/Byte2ShortSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteBidirectionalIterator.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2ShortLinkedOpenHashMap.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLong2ByteFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2CharLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/Int2ByteFunction.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByte2BooleanSortedMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2CharMaps.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/Char2CharFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatLinkedOpenCustomHashSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Reference2BooleanSortedMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntIterators.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/Float2ByteLinkedOpenHashMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/Object2CharFunctions.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongCollection.java

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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/AbstractShortBidirectionalIterator.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2ObjectMaps.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/AbstractChar2ObjectMap.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/Short2BooleanOpenHashMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/ByteSortedSet.java  
\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/AbstractInt2ByteMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/Reference2ObjectMaps.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/Double2BooleanMap.java

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/io/InspectableFileCachedInputStream.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/io/FastMultiByteArrayInputStream.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/io/MeasurableStream.java  
\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/io/TextIO.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/io/BinIO.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/io/MeasurableInputStream.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/io/FastBufferedOutputStream.java

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/TextIO.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BinIO.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/RepositionableStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/FastBufferedInputStream.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/MeasurableOutputStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/FastByteArrayOutputStream.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/io/FastByteArrayInputStream.java
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```
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*/
```

```
package PACKAGE;
```

```
import java.util.SortedSet;
import java.util.Collection;
```

```
/** A type-specific {@link SortedSet}; provides some additional methods that use polymorphism to avoid
(un)boxing.
*
* <P>Additionally, this interface strengthens {@link #iterator()},
* {@link #comparator()} (for primitive types), {@link
SortedSet#subSet(Object,Object)},
* {@link SortedSet#headSet(Object)} and {@link SortedSet#tailSet(Object)}.
*
* @see SortedSet
*/
```



```

public interface SORTED_SET KEY_GENERIC extends SET KEY_GENERIC,
SortedSet<KEY_GENERIC_CLASS> {

/** Returns a type-specific { @link it.unimi.dsi.fastutil.BidirectionalIterator} on the elements in
 * this set, starting from a given element of the domain (optional operation).
 *
 * <P>This method returns a type-specific bidirectional iterator with given
 * starting point. The starting point is any element comparable to the
 * elements of this set (even if it does not actually belong to the
 * set). The next element of the returned iterator is the least element of
 * the set that is greater than the starting point (if there are no
 * elements greater than the starting point, { @link
 * it.unimi.dsi.fastutil.BidirectionalIterator#hasNext() hasNext()} will return
 * <code>>false</code>). The previous element of the returned iterator is
 * the
greatest element of the set that is smaller than or equal to the
 * starting point (if there are no elements smaller than or equal to the
 * starting point, { @link it.unimi.dsi.fastutil.BidirectionalIterator#hasPrevious()
 * hasPrevious()} will return <code>>false</code>).
 *
 * <P>Note that passing the last element of the set as starting point and
 * calling { @link it.unimi.dsi.fastutil.BidirectionalIterator#previous() previous()} you can traverse the
 * entire set in reverse order.
 *
 * @param fromElement an element to start from.
 * @return a bidirectional iterator on the element in this set, starting at the given element.
 * @throws UnsupportedOperationException if this set does not support iterators with a starting point.
 */

```

```

KEY_BIDI_ITERATOR KEY_GENERIC iterator(KEY_GENERIC_TYPE fromElement);

```

```

/** Returns a type-specific { @link it.unimi.dsi.fastutil.BidirectionalIterator} iterator on the collection.
 *
 * <P>The iterator returned by the { @link #iterator()} method
and by this
 * method are identical; however, using this method you can save a type casting.
 *
 * Note that this specification strengthens the one given in the corresponding type-specific
 * { @link Collection}.
 *
 * @deprecated As of <code>fastutil</code> 5, replaced by { @link #iterator()}.
 */

```

```

@Deprecated

```

```

KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD();

```

```

/** Returns a type-specific { @link it.unimi.dsi.fastutil.BidirectionalIterator} on the elements in
 * this set.

```

```

*
* <P>This method returns a parameterised bidirectional iterator. The iterator
* can be moreover safely cast to a type-specific iterator.
*
* Note that this specification strengthens the one given in the corresponding type-specific
* { @link Collection }.
*
* @return a bidirectional iterator on the element in this set.
*/
KEY_BIDI_ITERATOR KEY_GENERIC iterator();

/** Returns a view of the portion of this sorted set whose elements range from <code>fromElement</code>,
inclusive, to <code>toElement</code>,
exclusive.
*
* <P>Note that this specification strengthens the one given in { @link SortedSet#subSet(Object,Object)}.
*
* @see SortedSet#subSet(Object,Object)
*/
SORTED_SET KEY_GENERIC subSet(KEY_GENERIC_CLASS fromElement, KEY_GENERIC_CLASS
toElement);

/** Returns a view of the portion of this sorted set whose elements are strictly less than <code>toElement</code>.
*
* <P>Note that this specification strengthens the one given in { @link SortedSet#headSet(Object)}.
*
* @see SortedSet#headSet(Object)
*/
SORTED_SET KEY_GENERIC headSet(KEY_GENERIC_CLASS toElement);

/** Returns a view of the portion of this sorted set whose elements are greater than or equal to
<code>fromElement</code>.
*
* <P>Note that this specification strengthens the one given in { @link SortedSet#tailSet(Object)}.
*
* @see SortedSet#tailSet(Object)
*/
SORTED_SET KEY_GENERIC tailSet(KEY_GENERIC_CLASS fromElement);

#if #keys(primitive)

/** Returns the comparator
associated with this sorted set, or null if it uses its elements' natural ordering.
*
* <P>Note that this specification strengthens the one given in { @link SortedSet#comparator()}.
*
* @see SortedSet#comparator()

```

```

*/

KEY_COMPARATOR comparator();

/**
 * @see SortedSet#subSet(Object, Object)
 */
SORTED_SET subSet(KEY_TYPE fromElement, KEY_TYPE toElement) ;

/**
 * @see SortedSet#headSet(Object)
 */
SORTED_SET headSet(KEY_TYPE toElement);

/**
 * @see SortedSet#tailSet(Object)
 */
SORTED_SET tailSet(KEY_TYPE fromElement);

/**
 * @see SortedSet#first()
 */
KEY_TYPE FIRST();

/**
 * @see SortedSet#last()
 */
KEY_TYPE LAST();

#endif

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SortedSet.drv

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*/
```

```
package PACKAGE;
```

```
import java.util.Iterator;
import java.util.ListIterator;
import java.util.NoSuchElementException;
```

```
/** A class providing static methods and objects that do useful things with type-specific iterators.
 *
 * @see Iterator
 */
```

```
public class ITERATORS {
```

```
 private ITERATORS() {}
```

```
 /** A class returning
 no elements and a type-specific iterator interface.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific iterator.
 */
```

```
 public static class EmptyIterator KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC
 implements java.io.Serializable, Cloneable {
```

```
 private static final long serialVersionUID = -7046029254386353129L;
```

```
 protected EmptyIterator() {}
```

```
 public boolean hasNext() { return false; }
 public boolean hasPrevious() { return false; }
 public KEY_GENERIC_TYPE NEXT_KEY() { throw new NoSuchElementException(); }
 public KEY_GENERIC_TYPE PREV_KEY() { throw new NoSuchElementException(); }
 public int nextIndex() { return 0; }
 public int previousIndex() { return -1; }
 public int skip(int n) { return 0; };
 public int back(int n) { return 0; };
 public Object clone() { return EMPTY_ITERATOR; }
 private Object readResolve() { return EMPTY_ITERATOR; }
 }
```

```
 /** An empty iterator (immutable). It is serializable
```

and cloneable.

\*

\* <P>The class of this objects represent an abstract empty iterator

\* that can iterate as a type-specific (list) iterator.

\*/

SUPPRESS\_WARNINGS\_KEY\_RAWTYPES

public final static EmptyIterator EMPTY\_ITERATOR = new EmptyIterator();

/\*\* An iterator returning a single element. \*/

private static class SingletonIterator KEY\_GENERIC extends KEY\_ABSTRACT\_LIST\_ITERATOR

KEY\_GENERIC {

private final KEY\_GENERIC\_TYPE element;

private int curr;

public SingletonIterator( final KEY\_GENERIC\_TYPE element ) {

    this.element = element;

}

public boolean hasNext() { return curr == 0; }

public boolean hasPrevious() { return curr == 1; }

public KEY\_GENERIC\_TYPE NEXT\_KEY() {

    if ( ! hasNext() ) throw new NoSuchElementException();

    curr = 1;

    return element;

}

public KEY\_GENERIC\_TYPE PREV\_KEY() {

    if ( ! hasPrevious() ) throw new NoSuchElementException();

    curr = 0;

    return element;

}

public int nextIndex() {

    return curr;

}

public

int previousIndex() {

    return curr - 1;

}

}

/\*\* Returns an iterator that iterates just over the given element.

```

*
* @param element the only element to be returned by a type-specific list iterator.
* @return an iterator that iterates just over <code>element</code>.
*/
public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC singleton(final KEY_GENERIC_TYPE
element) {
 return new SingletonIterator KEY_GENERIC(element);
}

/** A class to wrap arrays in iterators. */

private static class ArrayIterator KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC
{
 private final KEY_GENERIC_TYPE[] array;
 private final int offset, length;
 private int curr;

 public ArrayIterator(final KEY_GENERIC_TYPE[] array, final int offset, final int length) {
 this.array = array;
 this.offset = offset;
 this.length = length;
 }

 public boolean hasNext() { return curr < length; }
 public boolean hasPrevious() { return curr > 0; }

 public KEY_GENERIC_TYPE NEXT_KEY()
 {
 if (! hasNext()) throw new NoSuchElementException();
 return array[offset + curr++];
 }

 public KEY_GENERIC_TYPE PREV_KEY() {
 if (! hasPrevious()) throw new NoSuchElementException();
 return array[offset + --curr];
 }

 public int skip(int n) {
 if (n <= length - curr) {
 curr += n;
 return n;
 }
 n = length - curr;
 curr = length;
 return n;
 }
}

```

```

public int back(int n) {
 if (n <= curr) {
 curr -= n;
 return n;
 }
 n = curr;
 curr = 0;
 return n;
}

```

```

public int nextIndex() {
 return curr;
}

```

```

public int previousIndex() {
 return curr - 1;
}
}

```

/\*\* Wraps the given part of an array into a type-specific list iterator.

\*

\* <P>The type-specific list iterator returned by this method will iterate  
\* <code>length</code> times, returning consecutive elements of the given  
\* array starting from the one with index <code>offset</code>.

\*

\* @param array an array to wrap into a type-specific list iterator.

\* @param offset the first element of the array to be returned.

\* @param length the number of elements to return.

\* @return an iterator that will return <code>length</code> elements of <code>array</code> starting at position  
<code>offset</code>.

\*/

```

public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC wrap(final KEY_GENERIC_TYPE[]
array, final int offset, final int length) {
 ARRAYS.ensureOffsetLength(array, offset, length);
 return new ArrayIterator KEY_GENERIC(array, offset, length);
}

```

/\*\* Wraps the given array into a type-specific list iterator.

\*

\* <P>The type-specific list iterator returned by this method will return  
\* all elements of the given array.

\*

\* @param array an array to wrap into a type-specific list iterator.

\* @return an iterator that will the elements of <code>array</code>.

\*/

```

public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC wrap(final KEY_GENERIC_TYPE[]

```

```

array) {
 return new ArrayIterator KEY_GENERIC(array, 0, array.length
);
}

/** Unwraps an iterator into an array starting at a given offset for a given number of elements.
 *
 * <P>This method iterates over the given type-specific iterator and stores the elements
 * returned, up to a maximum of <code>length</code>, in the given array starting at <code>offset</code>.
 * The number of actually unwrapped elements is returned (it may be less than <code>max</code> if
 * the iterator emits less than <code>max</code> elements).
 *
 * @param i a type-specific iterator.
 * @param array an array to contain the output of the iterator.
 * @param offset the first element of the array to be returned.
 * @param max the maximum number of elements to unwrap.
 * @return the number of elements unwrapped.
 */
public static KEY_GENERIC int unwrap(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final
KEY_GENERIC_TYPE array[], int offset, final int max) {
 if (max < 0) throw new IllegalArgumentException("The maximum number of elements (" + max +
") is negative");
 if (offset < 0 || offset + max > array.length) throw new IllegalArgumentException();
 int j = max;
 while(j-- != 0 && i.hasNext()) array[offset++] = i.NEXT_KEY();
 return max - j - 1;
}

/** Unwraps an iterator into an array.
 *
 * <P>This method iterates over the given type-specific iterator and stores the
 * elements returned in the given array. The iteration will stop when the
 * iterator has no more elements or when the end of the array has been reached.
 *
 * @param i a type-specific iterator.
 * @param array an array to contain the output of the iterator.
 * @return the number of elements unwrapped.
 */
public static KEY_GENERIC int unwrap(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final
KEY_GENERIC_TYPE array[]) {
 return unwrap(i, array, 0, array.length);
}

/** Unwraps an iterator, returning an array, with a limit on the number of elements.
 *
 * <P>This method iterates over the given type-specific iterator and returns an array

```



```

* containing the elements returned by the iterator. At most <code>max</code> elements
* will be returned.
*
* @param i a type-specific iterator.
* @param max the maximum number of elements to be unwrapped.
* @return an array containing the elements returned by the iterator (at most <code>max</code>).
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public static KEY_GENERIC KEY_GENERIC_TYPE[] unwrap(final STD_KEY_ITERATOR
KEY_EXTENDS_GENERIC i, int max) {
 if (max < 0) throw new IllegalArgumentException("The maximum number of elements (" + max + ") is negative"
);
 KEY_GENERIC_TYPE array[] = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[16];
 int j = 0;

 while(max-- != 0 && i.hasNext()) {
 if (j == array.length) array = ARRAYS.grow(array, j + 1);
 array[j++] = i.NEXT_KEY();
 }

 return ARRAYS.trim(array, j);
}

/** Unwraps an iterator, returning an array.
*
* <P>This method iterates over the given type-specific iterator and returns an array
* containing
the elements returned by the iterator.
*
* @param i a type-specific iterator.
* @return an array containing the elements returned by the iterator.
*/

public static KEY_GENERIC KEY_GENERIC_TYPE[] unwrap(final STD_KEY_ITERATOR
KEY_EXTENDS_GENERIC i) {
 return unwrap(i, Integer.MAX_VALUE);
}

/** Unwraps an iterator into a type-specific collection, with a limit on the number of elements.
*
* <P>This method iterates over the given type-specific iterator and stores the elements
* returned, up to a maximum of <code>max</code>, in the given type-specific collection.
* The number of actually unwrapped elements is returned (it may be less than <code>max</code> if
* the iterator emits less than <code>max</code> elements).
*
* @param i a type-specific iterator.

```

```

* @param c a type-specific collection array to contain the output of the iterator.
* @param max the maximum number of elements to unwrap.
* @return the number of elements unwrapped. Note that
* this
is the number of elements returned by the iterator, which is not necessarily the number
* of elements that have been added to the collection (because of duplicates).
*/
public static KEY_GENERIC int unwrap(final STD_KEY_ITERATOR KEY_GENERIC i, final COLLECTION
KEY_SUPER_GENERIC c, final int max) {
 if (max < 0) throw new IllegalArgumentException("The maximum number of elements (" + max + ") is negative"
);
 int j = max;
 while(j-- != 0 && i.hasNext()) c.add(i.NEXT_KEY());
 return max - j - 1;
}

/** Unwraps an iterator into a type-specific collection.
*
* <P>This method iterates over the given type-specific iterator and stores the
* elements returned in the given type-specific collection. The returned count on the number
* unwrapped elements is a long, so that it will work also with very large collections.
*
* @param i a type-specific iterator.
* @param c a type-specific collection to contain the output of the iterator.
* @return the number of elements
unwrapped. Note that
* this is the number of elements returned by the iterator, which is not necessarily the number
* of elements that have been added to the collection (because of duplicates).
*/
public static KEY_GENERIC long unwrap(final STD_KEY_ITERATOR KEY_GENERIC i, final COLLECTION
KEY_SUPER_GENERIC c) {
 long n = 0;
 while(i.hasNext()) {
 c.add(i.NEXT_KEY());
 n++;
 }
 return n;
}

/** Pours an iterator into a type-specific collection, with a limit on the number of elements.
*
* <P>This method iterates over the given type-specific iterator and adds
* the returned elements to the given collection (up to <code>max</code>).
*
* @param i a type-specific iterator.
* @param s a type-specific collection.
* @param max the maximum number of elements to be poured.

```

```

* @return the number of elements poured. Note that
* this is the number of elements returned by the iterator, which is not necessarily the number
* of elements that have been added
to the collection (because of duplicates).
*/

public static KEY_GENERIC int pour(final STD_KEY_ITERATOR KEY_GENERIC i, final COLLECTION
KEY_SUPER_GENERIC s, final int max) {
 if (max < 0) throw new IllegalArgumentException("The maximum number of elements (" + max + ") is negative"
);
 int j = max;
 while(j-- != 0 && i.hasNext()) s.add(i.NEXT_KEY());
 return max - j - 1;
}

/** Pours an iterator into a type-specific collection.
*
* <P>This method iterates over the given type-specific iterator and adds
* the returned elements to the given collection.
*
* @param i a type-specific iterator.
* @param s a type-specific collection.
* @return the number of elements poured. Note that
* this is the number of elements returned by the iterator, which is not necessarily the number
* of elements that have been added to the collection (because of duplicates).
*/

public static KEY_GENERIC int pour(final STD_KEY_ITERATOR KEY_GENERIC i, final COLLECTION
KEY_SUPER_GENERIC
s) {
 return pour(i, s, Integer.MAX_VALUE);
}

/** Pours an iterator, returning a type-specific list, with a limit on the number of elements.
*
* <P>This method iterates over the given type-specific iterator and returns
* a type-specific list containing the returned elements (up to <code>max</code>). Iteration
* on the returned list is guaranteed to produce the elements in the same order
* in which they appeared in the iterator.
*
*
* @param i a type-specific iterator.
* @param max the maximum number of elements to be poured.
* @return a type-specific list containing the returned elements, up to <code>max</code>.
*/

public static KEY_GENERIC LIST KEY_GENERIC pour(final STD_KEY_ITERATOR KEY_GENERIC i, int
max) {

```

```

final ARRAY_LIST KEY_GENERIC l = new ARRAY_LIST KEY_GENERIC();
pour(i, l, max);
l.trim();
return l;
}

/** Pours an iterator, returning a type-specific list.
 *
 * <P>This method iterates over the given type-specific iterator
and returns
 * a list containing the returned elements. Iteration
 * on the returned list is guaranteed to produce the elements in the same order
 * in which they appeared in the iterator.
 *
 * @param i a type-specific iterator.
 * @return a type-specific list containing the returned elements.
 */

public static KEY_GENERIC LIST KEY_GENERIC pour(final STD_KEY_ITERATOR KEY_GENERIC i) {
return pour(i, Integer.MAX_VALUE);
}

private static class IteratorWrapper KEY_GENERIC extends KEY_ABSTRACT_ITERATOR KEY_GENERIC {
final Iterator<KEY_GENERIC_CLASS> i;

public IteratorWrapper(final Iterator<KEY_GENERIC_CLASS> i) {
this.i = i;
}

public boolean hasNext() { return i.hasNext(); }
public void remove() { i.remove(); }

public KEY_GENERIC_TYPE NEXT_KEY() { return KEY_CLASS2TYPE(i.next()); }
}

/** Wraps a standard iterator into a type-specific iterator.
 *
 * <P>This method wraps a standard iterator into a type-specific one which will handle the
 * type conversions for you. Of course, any attempt to wrap an iterator returning the
 * instances of the wrong class will generate a { @link ClassCastException}. The
 * returned iterator is backed by <code>i</code>: changes to one of the iterators
 * will affect the other, too.
 *
 * <P>If <code>i</code> is already type-specific, it will returned and no new object
 * will be generated.
 *
 * @param i an iterator.

```

```

* @return a type-specific iterator backed by <code>i</code>.
*/
#if #keys(primitive)
@SuppressWarnings({"unchecked","rawtypes"})
#endif
public static KEY_GENERIC KEY_ITERATOR KEY_GENERIC AS_KEY_ITERATOR(final Iterator
KEY_GENERIC i) {
 if (i instanceof KEY_ITERATOR) return (KEY_ITERATOR KEY_GENERIC)i;
 return new IteratorWrapper KEY_GENERIC(i);
}

private static class ListIteratorWrapper KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR
KEY_GENERIC {
 final ListIterator<KEY_GENERIC_CLASS> i;

 public ListIteratorWrapper(final ListIterator<KEY_GENERIC_CLASS>
i) {
 this.i = i;
 }

 public boolean hasNext() { return i.hasNext(); }
 public boolean hasPrevious() { return i.hasPrevious(); }
 public int nextIndex() { return i.nextIndex(); }
 public int previousIndex() { return i.previousIndex(); }
 public void set(KEY_GENERIC_TYPE k) { i.set(KEY2OBJ(k)); }
 public void add(KEY_GENERIC_TYPE k) { i.add(KEY2OBJ(k)); }
 public void remove() { i.remove(); }

 public KEY_GENERIC_TYPE NEXT_KEY() { return KEY_CLASS2TYPE(i.next()); }
 public KEY_GENERIC_TYPE PREV_KEY() { return KEY_CLASS2TYPE(i.previous()); }
}

/** Wraps a standard list iterator into a type-specific list iterator.
*
* <P>This method wraps a standard list iterator into a type-specific one
* which will handle the type conversions for you. Of course, any attempt
* to wrap an iterator returning the instances of the wrong class will
* generate a { @link ClassCastException}. The
* returned iterator is backed by <code>i</code>: changes to one of
the iterators
* will affect the other, too.
*
* <P>If <code>i</code> is already type-specific, it will returned and no new object
* will be generated.
*
* @param i a list iterator.
* @return a type-specific list iterator backed by <code>i</code>.

```

```

*/
#if #keys(primitive)
@SuppressWarnings({"unchecked","rawtypes"})
#endif
public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC AS_KEY_ITERATOR(final ListIterator
KEY_GENERIC i) {
if (i instanceof KEY_LIST_ITERATOR) return (KEY_LIST_ITERATOR KEY_GENERIC)i;
return new ListIteratorWrapper KEY_GENERIC(i);
}

#if #keyclass(Integer) || #keyclass(Byte) || #keyclass(Short) || #keyclass(Character) || #keyclass(Long)

#if #keyclass(Long)
private static class IntervallIterator extends KEY_ABSTRACT_BIDI_ITERATOR {
#else
private static class IntervallIterator extends KEY_ABSTRACT_LIST_ITERATOR {
#endif
private final KEY_TYPE from, to;
KEY_TYPE curr;

public IntervallIterator(final KEY_TYPE from, final KEY_TYPE to)
{
this.from = this.curr = from;
this.to = to;
}

public boolean hasNext() { return curr < to; }
public boolean hasPrevious() { return curr > from; }

public KEY_TYPE NEXT_KEY() {
if (! hasNext()) throw new NoSuchElementException();
return curr++;
}
public KEY_TYPE PREV_KEY() {
if (! hasPrevious()) throw new NoSuchElementException();
return --curr;
}

}

#if ! #keyclass(Long)
public int nextIndex() { return curr - from; }
public int previousIndex() { return curr - from - 1; }
#endif

public int skip(int n) {
if (curr + n <= to) {
curr += n;
return n;
}
}

```

```

 }
 #if ! #keyclass(Long)
 n = to - curr;
 #else
 n = (int)(to - curr);
 #endif
 curr = to;
 return n;
}

public int back(int n) {
 if (curr - n >= from) {
 curr -= n;
 return n;
 }
 #if ! #keyclass(Long)
 n = curr - from ;
 #else
 n = (int)(curr - from);
 #endif
 curr = from;
 return n;
}
}

#if #keyclass(Long)
/** Creates a type-specific bidirectional
iterator over an interval.
*
* <P>The type-specific bidirectional iterator returned by this method will return the
* elements <code>from</code>, <code>from+1</code>, …, <code>to-1</code>.
*
* <P>Note that all other type-specific interval iterator are list
* iterators. Of course, this is not possible with longs as the index
* returned by { @link java.util.ListIterator#nextIndex() nextIndex()}/{ @link
* java.util.ListIterator#previousIndex() previousIndex()} would exceed an integer.
*
* @param from the starting element (inclusive).
* @param to the ending element (exclusive).
* @return a type-specific bidirectional iterator enumerating the elements from <code>from</code> to
<code>to</code>.
*/
public static KEY_BIDI_ITERATOR fromTo(final KEY_TYPE from, final KEY_TYPE to) {
 return new IntervalIterator(from, to);
}
#else

/** Creates a type-specific list iterator over an interval.

```

```

*
* <P>The type-specific list iterator returned
by this method will return the
* elements <code>from</code>, <code>from+1</code>,…, <code>to-1</code>.
*
* @param from the starting element (inclusive).
* @param to the ending element (exclusive).
* @return a type-specific list iterator enumerating the elements from <code>from</code> to <code>to</code>.
*/
public static KEY_LIST_ITERATOR fromTo(final KEY_TYPE from, final KEY_TYPE to) {
 return new IntervalIterator(from, to);
}

#endif

#endif

private static class IteratorConcatenator KEY_GENERIC extends KEY_ABSTRACT_ITERATOR
KEY_GENERIC {
 final KEY_ITERATOR KEY_EXTENDS_GENERIC a[];
 int offset, length, lastOffset = -1;

 public IteratorConcatenator(final KEY_ITERATOR KEY_EXTENDS_GENERIC a[], int offset, int length) {
 this.a = a;
 this.offset = offset;
 this.length = length;
 advance();
 }

 private void advance() {
 while(length != 0) {
 if (a[offset].hasNext()) break;
 length--;
 offset++;
 }

 return;
 }

 public boolean
 hasNext() {
 return length > 0;
 }

 public KEY_GENERIC_TYPE NEXT_KEY() {
 if (! hasNext()) throw new NoSuchElementException();
 KEY_GENERIC_TYPE next = a[lastOffset = offset].NEXT_KEY();
 advance();
 }
}

```



```

return next;
}

public void remove() {
 if (lastOffset == -1) throw new IllegalStateException();
 a[lastOffset].remove();
}

public int skip(int n) {
 lastOffset = -1;

 int skipped = 0;

 while(skipped < n && length != 0) {
 skipped += a[offset].skip(n - skipped);
 if (a[offset].hasNext()) break;
 length--;
 offset++;
 }

 return skipped;
}

}

/** Concatenates all iterators contained in an array.
 *
 * <P>This method returns an iterator that will enumerate in order the elements returned
 * by all iterators contained in the given array.
 *
 * @param a an array of iterators.
 * @return an iterator obtained by concatenation.
 */

public static KEY_GENERIC KEY_ITERATOR KEY_GENERIC concat(final KEY_ITERATOR
KEY_EXTENDS_GENERIC a[]) {
 return concat(a, 0, a.length);
}

/** Concatenates a sequence of iterators contained in an array.
 *
 * <P>This method returns an iterator that will enumerate in order the elements returned
 * by <code>a[offset]</code>, then those returned
 * by <code>a[offset + 1]</code>, and so on up to
 * <code>a[offset + length - 1]</code>.
 *

```

```

* @param a an array of iterators.
* @param offset the index of the first iterator to concatenate.
* @param length the number of iterators to concatenate.
* @return an iterator obtained by concatenation of <code>length</code> elements of <code>a</code> starting at
<code>offset</code>.
*/

```

```

public static KEY_GENERIC KEY_ITERATOR KEY_GENERIC concat(final KEY_ITERATOR
KEY_EXTENDS_GENERIC a[], final int offset, final int length) {
 return new IteratorConcatenator KEY_GENERIC(a, offset, length);
}

```

```

/** An unmodifiable wrapper class for iterators. */

```

```

public static class UnmodifiableIterator
KEY_GENERIC extends KEY_ABSTRACT_ITERATOR KEY_GENERIC {
 final protected KEY_ITERATOR KEY_GENERIC i;

```

```

 public UnmodifiableIterator(final KEY_ITERATOR KEY_GENERIC i) {
 this.i = i;
 }

```

```

 public boolean hasNext() { return i.hasNext(); }

```

```

 public KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }

```

```

#if #keys(primitive)

```

```

/** { @inheritDoc }

```

```

* @deprecated Please use the corresponding type-specific method instead. */

```

```

@Deprecated

```

```

@Override

```

```

 public KEY_GENERIC_CLASS next() { return i.next(); }

```

```

#endif

```

```

}

```

```

/** Returns an unmodifiable iterator backed by the specified iterator.

```

```

*

```

```

* @param i the iterator to be wrapped in an unmodifiable iterator.

```

```

* @return an unmodifiable view of the specified iterator.

```

```

*/

```

```

public static KEY_GENERIC KEY_ITERATOR KEY_GENERIC unmodifiable(final KEY_ITERATOR
KEY_GENERIC i) { return new UnmodifiableIterator KEY_GENERIC(i); }

```

```

/** An unmodifiable wrapper class for bidirectional iterators. */

```

```

public static class UnmodifiableBidirectionalIterator
KEY_GENERIC extends KEY_ABSTRACT_BIDI_ITERATOR KEY_GENERIC {
 final protected KEY_BIDI_ITERATOR KEY_GENERIC i;

 public UnmodifiableBidirectionalIterator(final KEY_BIDI_ITERATOR KEY_GENERIC i) {
 this.i = i;
 }

 public boolean hasNext() { return i.hasNext(); }
 public boolean hasPrevious() { return i.hasPrevious(); }
 public KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
 public KEY_GENERIC_TYPE PREV_KEY() { return i.PREV_KEY(); }
#ifdef #keys(primitive)
 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 @Override
 public KEY_GENERIC_CLASS next() { return i.next(); }
 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 @Override
 public KEY_GENERIC_CLASS previous() { return i.previous(); }
#endif
}

/** Returns an unmodifiable bidirectional iterator backed by the specified bidirectional iterator.
 *
 * @param i the bidirectional
iterator to be wrapped in an unmodifiable bidirectional iterator.
 * @return an unmodifiable view of the specified bidirectional iterator.
 */
public static KEY_GENERIC KEY_BIDI_ITERATOR KEY_GENERIC unmodifiable(final
KEY_BIDI_ITERATOR KEY_GENERIC i) { return new UnmodifiableBidirectionalIterator KEY_GENERIC(i);
}

/** An unmodifiable wrapper class for list iterators. */

public static class UnmodifiableListIterator KEY_GENERIC extends KEY_ABSTRACT_LIST_ITERATOR
KEY_GENERIC {
 final protected KEY_LIST_ITERATOR KEY_GENERIC i;

 public UnmodifiableListIterator(final KEY_LIST_ITERATOR KEY_GENERIC i) {
 this.i = i;
 }

```

```

public boolean hasNext() { return i.hasNext(); }
public boolean hasPrevious() { return i.hasPrevious(); }
public KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
public KEY_GENERIC_TYPE PREV_KEY() { return i.PREV_KEY(); }
public int nextIndex() { return i.nextIndex(); }
public int previousIndex() { return i.previousIndex(); }
#if #keys(primitive)
/**
 * @inheritDoc
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public KEY_GENERIC_CLASS next() { return i.next(); }
/** { @inheritDoc
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public KEY_GENERIC_CLASS previous() { return i.previous(); }
#endif
}

/** Returns an unmodifiable list iterator backed by the specified list iterator.
 *
 * @param i the list iterator to be wrapped in an unmodifiable list iterator.
 * @return an unmodifiable view of the specified list iterator.
 */
public static KEY_GENERIC KEY_LIST_ITERATOR KEY_GENERIC unmodifiable(final
KEY_LIST_ITERATOR KEY_GENERIC i) { return new UnmodifiableListIterator KEY_GENERIC(i); }

#if #keyclass(Short) || #keyclass(Integer) || #keyclass(Long) || #keyclass(Float) || #keyclass(Double)

/** A wrapper promoting the results of a ByteIterator. */

protected static class ByteIteratorWrapper
implements KEY_ITERATOR {
final it.unimi.dsi.fastutil.bytes.ByteIterator iterator;

public ByteIteratorWrapper(final it.unimi.dsi.fastutil.bytes.ByteIterator iterator) {
this.iterator = iterator;
}

public boolean hasNext() { return iterator.hasNext(); }
public KEY_GENERIC_CLASS next() { return KEY_GENERIC_CLASS.valueOf(iterator.nextByte()); }
public KEY_TYPE NEXT_KEY() { return iterator.nextByte(); }
public void remove() { iterator.remove(); }
public int skip(final int n) { return iterator.skip(n); }
}

```

```

/** Returns an iterator backed by the specified byte iterator.
 * @return an iterator backed by the specified byte iterator.
 */
public static KEY_ITERATOR wrap(final it.unimi.dsi.fastutil.bytes.ByteIterator iterator) {
 return new ByteIteratorWrapper(iterator);
}
#endif

#if #keyclass(Integer) || #keyclass(Long) || #keyclass(Float) || #keyclass(Double)

/** A wrapper promoting the results of a ShortIterator. */

protected static class ShortIteratorWrapper
implements KEY_ITERATOR {
 final it.unimi.dsi.fastutil.shorts.ShortIterator iterator;

 public ShortIteratorWrapper(final it.unimi.dsi.fastutil.shorts.ShortIterator iterator) {
 this.iterator = iterator;
 }

 public boolean hasNext() { return iterator.hasNext(); }
 public KEY_GENERIC_CLASS next() { return KEY_GENERIC_CLASS.valueOf(iterator.nextShort()); }
 public KEY_TYPE NEXT_KEY() { return iterator.nextShort(); }
 public void remove() { iterator.remove(); }
 public int skip(final int n) { return iterator.skip(n); }
}

/** Returns an iterator backed by the specified short iterator.
 * @return an iterator backed by the specified short iterator.
 */
public static KEY_ITERATOR wrap(final it.unimi.dsi.fastutil.shorts.ShortIterator iterator) {
 return new ShortIteratorWrapper(iterator);
}

#endif

#if #keyclass(Long) || #keyclass(Double)

/** A wrapper promoting the results of an IntIterator. */

protected static class IntIteratorWrapper
implements KEY_ITERATOR {
 final it.unimi.dsi.fastutil.ints.IntIterator iterator;

 public IntIteratorWrapper(final it.unimi.dsi.fastutil.ints.IntIterator iterator) {
 this.iterator = iterator;
 }
}

```

```

public boolean hasNext() { return iterator.hasNext(); }
public KEY_GENERIC_CLASS next() { return KEY_GENERIC_CLASS.valueOf(iterator.nextInt()); }
public KEY_TYPE NEXT_KEY() { return iterator.nextInt(); }
public void remove() { iterator.remove(); }
public int skip(final int n) { return iterator.skip(n); }
}

/** Returns an iterator backed by the specified integer iterator.
 * @return an iterator backed by the specified integer iterator.
 */

public static KEY_ITERATOR wrap(final it.unimi.dsi.fastutil.ints.IntIterator iterator) {
 return new IntIteratorWrapper(iterator);
}

#endif

#if #keyclass(Double)

/** A wrapper promoting the results of a FloatIterator. */

protected static class FloatIteratorWrapper implements KEY_ITERATOR {
 final it.unimi.dsi.fastutil.floats.FloatIterator
iterator;

 public FloatIteratorWrapper(final it.unimi.dsi.fastutil.floats.FloatIterator iterator) {
 this.iterator = iterator;
 }

 public boolean hasNext() { return iterator.hasNext(); }
 public KEY_GENERIC_CLASS next() { return KEY_GENERIC_CLASS.valueOf(iterator.nextFloat()); }
 public KEY_TYPE NEXT_KEY() { return iterator.nextFloat(); }
 public void remove() { iterator.remove(); }
 public int skip(final int n) { return iterator.skip(n); }
}

/** Returns an iterator backed by the specified float iterator.
 * @return an iterator backed by the specified float iterator.
 */

public static KEY_ITERATOR wrap(final it.unimi.dsi.fastutil.floats.FloatIterator iterator) {
 return new FloatIteratorWrapper(iterator);
}
#endif
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Iterators.drv

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

```
/*
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 *
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.AbstractObjectListIterator;
import it.unimi.dsi.fastutil.objects.AbstractObjectList;
import it.unimi.dsi.fastutil.objects.ObjectListIterator;
import it.unimi.dsi.fastutil.longs.LongArrays;
```

```
import java.io.Serializable;
import java.util.Iterator;
import java.util.Collection;
import
 java.util.NoSuchElementException;
import java.util.RandomAccess;
```

```
/** Compact storage of lists of arrays using front coding.
 *
 * <P>This class stores immutably a list of arrays in a single large array
 * using front coding (of course, the compression will be reasonable only if
 * the list is sorted lexicographically—see below). It implements an
 * immutable type-specific list that returns the <var>i</var>-th array when
 * calling { @link #get(int) get(<var>i</var>)}. The returned array may be
 * freely modified.
 *
 * <P>Front coding is based on the idea that if the <var>i</var>-th and the
 * (<var>i</var>+1)-th array have a common prefix, we might store the length
 * of the common prefix, and then the rest of the second array.
 *
 * <P>This approach, of course, requires that once in a while an array is
 * stored entirely. The ratio of a front-coded list defines how
```

\* often this happens (once every { @link #ratio() } arrays). A higher ratio  
 \* means  
 more compression, but means also a longer access time, as more arrays  
 \* have to be probed to build the result. Note that we must build an array  
 \* every time { @link #get(int) } is called, but this class provides also methods  
 \* that extract one of the stored arrays in a given array, reducing garbage  
 \* collection. See the documentation of the family of `get()`  
 \* methods.

\*  
 \* <P>By setting the ratio to 1 we actually disable front coding: however, we  
 \* still have a data structure storing large list of arrays with a reduced  
 \* overhead (just one integer per array, plus the space required for lengths).

\*  
 \* <P>Note that the typical usage of front-coded lists is under the form of  
 \* serialized objects; usually, the data that has to be compacted is processed  
 \* offline, and the resulting structure is stored permanently. Since the  
 \* pointer array is not stored, the serialized format is very small.

\*  
 \* <H2>Implementation Details</H2>

\*  
 \* <P>All arrays are stored in a { @linkplain  
 it.unimi.dsi.fastutil.BigArrays big array }. A separate array of pointers  
 \* indexes arrays whose position is a multiple of the ratio: thus, a higher ratio  
 \* means also less pointers.

\*  
 \* <P>More in detail, an array whose position is a multiple of the ratio is  
 \* stored as the array length, followed by the elements of the array. The array  
 \* length is coded by a simple variable-length list of `k`-1 bit  
 \* blocks, where `k` is the number of bits of the underlying primitive  
 \* type. All other arrays are stored as follows: let `common` the  
 \* length of the maximum common prefix between the array and its predecessor.  
 \* Then we store the array length decremented by `common`, followed  
 \* by `common`, followed by the array elements whose index is  
 \* greater than or equal to `common`. For instance, if we store  
 \* `foo`, `foobar`, `football` and  
 \* `fool` in a front-coded character-array  
 list with ratio 3, the  
 \* character array will contain

\*  
 \* <pre>  
 \* **3** f o o **3** **3** b a r **5** **3** t b a l l **4** f o o l  
 \* </pre>  
 \*/

```
public class ARRAY_FRONT_CODED_LIST extends AbstractObjectList<KEY_TYPE[]> implements
Serializable, Cloneable, RandomAccess {
```

```
 private static final long serialVersionUID = 1L;
```



```

/** The number of arrays in the list. */
protected final int n;
/** The ratio of this front-coded list. */
protected final int ratio;
/** The big array containing the compressed arrays. */
protected final KEY_TYPE[][] array;
/** The pointers to entire arrays in the list. */
protected transient long[] p;

/** Creates a new front-coded list containing the arrays returned by the given iterator.
 *
 * @param arrays an iterator returning arrays.
 * @param ratio the desired ratio.
 */

public ARRAY_FRONT_CODED_LIST(final Iterator<KEY_TYPE[]> arrays, final int ratio) {

 if (ratio < 1) throw new IllegalArgumentException(
 "Illegal ratio (" + ratio + ")");

 KEY_TYPE[][] array = BIG_ARRAYS.EMPTY_BIG_ARRAY;
 long[] p = LongArrays.EMPTY_ARRAY;

 KEY_TYPE[][] a = new KEY_TYPE[2][];
 long curSize = 0;
 int n = 0, b = 0, common, length, minLength;

 while(arrays.hasNext()) {
 a[b] = arrays.next();
 length = a[b].length;

 if (n % ratio == 0) {
 p = LongArrays.grow(p, n / ratio + 1);
 p[n / ratio] = curSize;

 array = BIG_ARRAYS.grow(array, curSize + count(length) + length, curSize);
 curSize += writeInt(array, length, curSize);
 BIG_ARRAYS.copyToBig(a[b], 0, array, curSize, length);
 curSize += length;
 }
 else {
 minLength = a[1 - b].length;
 if (length < minLength) minLength = length;
 for(common = 0; common < minLength; common++) if (a[0][common] != a[1][common]) break;
 length -= common;
 }

 array = BIG_ARRAYS.grow(array, curSize + count(length) + count(common) + length, curSize);
 }
}

```

```

 curSize += writeInt(
array, length, curSize);
 curSize += writeInt(array, common, curSize);
 BIG_ARRAYS.copyToBig(a[b], common, array, curSize, length);
 curSize += length;
}

b = 1 - b;
n++;
}

this.n = n;
this.ratio = ratio;
this.array = BIG_ARRAYS.trim(array, curSize);
this.p = LongArrays.trim(p, (n + ratio - 1) / ratio);

}

/** Creates a new front-coded list containing the arrays in the given collection.
 *
 * @param c a collection containing arrays.
 * @param ratio the desired ratio.
 */

public ARRAY_FRONT_CODED_LIST(final Collection<KEY_TYPE[]> c, final int ratio) {
 this(c.iterator(), ratio);
}

/** The following (rather messy) methods implements the encoding of arbitrary integers inside a big array.
 * Unfortunately, we have to specify different codes for almost every type. */

/** Reads a coded length.
 * @param a the data big array.
 * @param pos the starting position.
 * @return the length coded at <code>pos</code>.
 */
private
static int readInt(final KEY_TYPE a[[]], long pos) {
#if #keyclass(Integer)
 return IntBigArrays.get(a, pos);
#elif #keyclass(Long)
 return (int)LongBigArrays.get(a, pos);
#elif #keyclass(Character)
 final char c0 = CharBigArrays.get(a, pos);
 return c0 < 0x8000 ? c0 : (c0 & 0x7FFF) << 16 | CharBigArrays.get(a, pos + 1);
#elif #keyclass(Short)

```

```

final short s0 = ShortBigArrays.get(a, pos);
return s0 >= 0 ? s0 : s0 << 16 | (ShortBigArrays.get(a, pos + 1) & 0xFFFF);
#else
final byte b0 = ByteBigArrays.get(a, pos);
if (b0 >= 0) return b0;
final byte b1 = ByteBigArrays.get(a, pos + 1);
if (b1 >= 0) return (- b0 - 1) << 7 | b1;
final byte b2 = ByteBigArrays.get(a, pos + 2);
if (b2 >= 0) return (- b0 - 1) << 14 | (- b1 - 1) << 7 | b2;
final byte b3 = ByteBigArrays.get(a, pos + 3);
if (b3 >= 0) return (- b0 - 1) << 21 | (- b1 - 1) << 14 | (- b2 - 1) << 7 | b3;
return (- b0 - 1) << 28 | (- b1 - 1) << 21 | (- b2 - 1)
<< 14 | (- b3 - 1) << 7 | ByteBigArrays.get(a, pos + 4);
#endif
}

/** Computes the number of elements coding a given length.
 * @param length the length to be coded.
 * @return the number of elements coding <code>length</code>.
 */
private static int count(final int length) {
#if #keyclass(Integer) || #keyclass(Long)
return 1;
#elif #keyclass(Character) || #keyclass(Short)
return length < (1 << 15) ? 1 : 2;
#else
if (length < (1 << 7)) return 1;
if (length < (1 << 14)) return 2;
if (length < (1 << 21)) return 3;
if (length < (1 << 28)) return 4;
return 5;
#endif
}

/** Writes a length.
 * @param a the data array.
 * @param length the length to be written.
 * @param pos the starting position.
 * @return the number of elements coding <code>length</code>.
 */
private static int writeInt(final KEY_TYPE a[], int length, long pos) {
#if #keyclass(Long)
LongBigArrays.set(a, pos, length);
return 1;
#elif #keyclass(Integer)
IntBigArrays.set(
a, pos, length);
return 1;

```

```

#elif #keyclass(Character)
if (length < (1 << 15)) {
 CharBigArrays.set(a, pos, (char)length);
 return 1;
}
CharBigArrays.set(a, pos++, (char)(length >>> 16 | 0x8000));
CharBigArrays.set(a, pos, (char)(length & 0xFFFF));
return 2;
#elif #keyclass(Short)
if (length < (1 << 15)) {
 ShortBigArrays.set(a, pos, (short)length);
 return 1;
}
ShortBigArrays.set(a, pos++, (short)(- (length >>> 16) - 1));
ShortBigArrays.set(a, pos, (short)(length & 0xFFFF));
return 2;
#else
final int count = count(length);
ByteBigArrays.set(a, pos + count - 1, (byte)(length & 0x7F));

if (count != 1) {
 int i = count - 1;
 while(i-- != 0) {
 length >>>= 7;
 ByteBigArrays.set(a, pos + i, (byte)(- (length & 0x7F) - 1));
 }
}

return count;
#endif
}

```

/\*\* Returns the ratio of this list.

\*

\* @return the ratio of this list.

\*/

```

public int ratio() {
 return ratio;
}

```

/\*\*

Computes the length of the array at the given index.

\*

\* <P>This private version of { @link #arrayLength(int) } does not check its argument.

```

*
* @param index an index.
* @return the length of the <code>index</code>-th array.
*/
private int length(final int index) {
 final KEY_TYPE[][] array = this.array;
 final int delta = index % ratio; // The index into the p array, and the delta inside the block.

 long pos = p[index / ratio]; // The position into the array of the first entire word before the index-th.
 int length = readInt(array, pos);

 if (delta == 0) return length;

 // First of all, we recover the array length and the maximum amount of copied elements.
 int common;
 pos += count(length) + length;
 length = readInt(array, pos);
 common = readInt(array, pos + count(length));

 for(int i = 0; i < delta - 1; i++) {
 pos += count(length) + count(common) + length;
 length = readInt(array, pos);
 common = readInt(array, pos +
count(length));
 }

 return length + common;
}

/** Computes the length of the array at the given index.
*
* @param index an index.
* @return the length of the <code>index</code>-th array.
*/
public int arrayLength(final int index) {
 ensureRestrictedIndex(index);
 return length(index);
}

/** Extracts the array at the given index.
*
* @param index an index.
* @param a the array that will store the result (we assume that it can hold the result).
* @param offset an offset into <code>a</code> where elements will be store.
* @param length a maximum number of elements to store in <code>a</code>.
* @return the length of the extracted array.
*/

```

```

private int extract(final int index, final KEY_TYPE a[], final int offset, final int length) {
 final int delta = index % ratio; // The delta inside the block.
 final long startPos = p[index / ratio]; // The position into the array of the first entire word before the index-th.
 long pos, prevArrayPos;
 int
 arrayLength = readInt(array, pos = startPos), currLen = 0, actualCommon;

 if (delta == 0) {
 pos = p[index / ratio] + count(arrayLength);
 BIG_ARRAYS.copyFromBig(array, pos, a, offset, Math.min(length, arrayLength));
 return arrayLength;
 }

 int common = 0;

 for(int i = 0; i < delta; i++) {
 prevArrayPos = pos + count(arrayLength) + (i != 0 ? count(common) : 0);
 pos = prevArrayPos + arrayLength;

 arrayLength = readInt(array, pos);
 common = readInt(array, pos + count(arrayLength));

 actualCommon = Math.min(common, length);
 if (actualCommon <= currLen) currLen = actualCommon;
 else {
 BIG_ARRAYS.copyFromBig(array, prevArrayPos, a, currLen + offset, actualCommon - currLen);
 currLen = actualCommon;
 }
 }

 if (currLen < length) BIG_ARRAYS.copyFromBig(array, pos + count(arrayLength) + count(common), a,
 currLen + offset, Math.min(arrayLength, length - currLen));

 return arrayLength + common;
}

public
KEY_TYPE[] get(final int index) {
 return getArray(index);
}

/**
 * @see #get(int)
 */

public KEY_TYPE[] getArray(final int index) {
 ensureRestrictedIndex(index);
 final int length = length(index);

```

```

final KEY_TYPE a[] = new KEY_TYPE[length];
extract(index, a, 0, length);
return a;
}

/** Stores in the given array elements from an array stored in this front-coded list.
 *
 * @param index an index.
 * @param a the array that will store the result.
 * @param offset an offset into <code>a</code> where elements will be store.
 * @param length a maximum number of elements to store in <code>a</code>.
 * @return if <code>a</code> can hold the extracted elements, the number of extracted elements;
 * otherwise, the number of remaining elements with the sign changed.
 */
public int get(final int index, final KEY_TYPE[] a, final int offset, final int length) {
 ensureRestrictedIndex(index);
 ARRAYS.ensureOffsetLength(a, offset, length);

 final
 int arrayLength = extract(index, a, offset, length);
 if (length >= arrayLength) return arrayLength;
 return length - arrayLength;
}

/** Stores in the given array an array stored in this front-coded list.
 *
 * @param index an index.
 * @param a the array that will store the content of the result (we assume that it can hold the result).
 * @return if <code>a</code> can hold the extracted elements, the number of extracted elements;
 * otherwise, the number of remaining elements with the sign changed.
 */
public int get(final int index, final KEY_TYPE[] a) {
 return get(index, a, 0, a.length);
}

public int size() {
 return n;
}

public ObjectListIterator<KEY_TYPE[]> listIterator(final int start) {
 ensureIndex(start);

 return new AbstractObjectListIterator<KEY_TYPE[]>() {
 KEY_TYPE s[] = ARRAYS.EMPTY_ARRAY;
 int i = 0;
 long pos = 0;
 boolean inSync; // Whether the current value in a is the string just before the next to be produced.
 };
}

```

```

{
 if
(start != 0) {
 if (start == n) i = start; // If we start at the end, we do nothing.
 else {
 pos = p[start / ratio];
 int j = start % ratio;
 i = start - j;
 while(j-- != 0) next();
 }
}
}

public boolean hasNext() {
 return i < n;
}

public boolean hasPrevious() {
 return i > 0;
}

public int previousIndex() {
 return i - 1;
}

public int nextIndex() {
 return i;
}

public KEY_TYPE[] next() {
 int length, common;

 if (! hasNext()) throw new NoSuchElementException();

 if (i % ratio == 0) {
 pos = p[i / ratio];
 length = readInt(array, pos);
 s = ARRAYS.ensureCapacity(s, length, 0);
 BIG_ARRAYS.copyFromBig(array, pos + count(length), s, 0, length);
 pos += length + count(length);
 inSync = true;
 }
 else {
 if (inSync) {
 length = readInt(array, pos);
 common = readInt(array,
pos + count(length));
 s = ARRAYS.ensureCapacity(s, length + common, common);

```



```

 BIG_ARRAYS.copyFromBig(array, pos + count(length) + count (common), s, common, length);
 pos += count(length) + count(common) + length;
 length += common;
 }
 else {
 s = ARRAYS.ensureCapacity(s, length = length(i), 0);
 extract(i, s, 0, length);
 }
}
i++;
return ARRAYS.copy(s, 0, length);
}

public KEY_TYPE[] previous() {
 if (! hasPrevious()) throw new NoSuchElementException();
 inSync = false;
 return getArray(--i);
}
};
}

/** Returns a copy of this list.
 *
 * @return a copy of this list.
 */

public ARRAY_FRONT_CODED_LIST clone() {
 return this;
}

public String toString() {
 final StringBuffer s = new StringBuffer();
 s.append("[");
 for(int i = 0; i < n; i++) {
 if (i != 0) s.append(", ");
 s.append(ARRAY_LIST.wrap(getArray(i)).toString());
 }
 s.append(
 "]");
 return s.toString();
}

/** Computes the pointer array using the currently set ratio, number of elements and underlying array.
 *
 * @return the computed pointer array.
 */

```

```

protected long[] rebuildPointerArray() {
 final long[] p = new long[(n + ratio - 1) / ratio];
 final KEY_TYPE a[][] = array;
 int length, count;
 long pos = 0;

 for(int i = 0, j = 0, skip = ratio - 1; i < n; i++) {
 length = readInt(a, pos);
 count = count(length);
 if (++skip == ratio) {
 skip = 0;
 p[j++] = pos;
 pos += count + length;
 }
 else pos += count + count(readInt(a, pos + count)) + length;
 }

 return p;
}

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();

 // Rebuild pointer array
 p = rebuildPointerArray();
}

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed
);

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
 #elif #keys(primitive)
 return r.NEXT_KEY();
 #elif #keyclass(Object)
 return Integer.toBinaryString(r.nextInt());
 #else
 return new java.io.Serializable() {};
 #endif
}

```

```

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition fp = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, fp).toString();
}

private static void speedTest(int n, boolean comp) {
 System.out.println("There are presently no speed tests for this class.");
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

private static boolean contentEquals(java.util.List
x, java.util.List y) {
 if (x.size() != y.size()) return false;
 for(int i = 0; i < x.size(); i++) if (! java.util.Arrays.equals((KEY_TYPE[])x.get(i), (KEY_TYPE[])y.get(i)))
return false;
 return true;
}

private static int l[];
private static KEY_TYPE[][] a;

private static void test(int n) {
 int c;

 l = new int[n];
 a = new KEY_TYPE[n][];

 for(int i = 0; i < n; i++) l[i] = (int)(Math.abs(r.nextGaussian())*32);
 for(int i = 0; i < n; i++) a[i] = new KEY_TYPE[l[i]];
 for(int i = 0; i < n; i++) for(int j = 0; j < l[i]; j++) a[i][j] = genKey();

 ARRAY_FRONT_CODED_LIST m = new ARRAY_FRONT_CODED_LIST(
it.unimi.dsi.fastutil.objects.ObjectIterators.wrap(a), r.nextInt(4) + 1);

```

```

it.unimi.dsi.fastutil.objects.ObjectArrayList t = new it.unimi.dsi.fastutil.objects.ObjectArrayList(a);

//System.out.println(m);
//for(i = 0; i < t.size(); i++) System.out.println(ARRAY_LIST.wrap((KEY_TYPE[])t.get(i)));

/* Now we check that m actually
holds that data. */

ensure(contentEquals(m, t), "Error (" + seed + "): m does not equal t at creation");

/* Now we check cloning. */

ensure(contentEquals(m, (java.util.List)m.clone()), "Error (" + seed + "): m does not equal m.clone()");

/* Now we play with iterators. */

{
 ObjectListIterator i;
 java.util.ListIterator j;
 Object J;
 i = m.listIterator();
 j = t.listIterator();

 for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext()");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious()");

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure(java.util.Arrays.equals((KEY_TYPE[])i.next(), (KEY_TYPE[])j.next()), "Error (" + seed + "): divergence
in next()");

 }
 else if (r.nextFloat() < .2 && i.hasPrevious()) {
 ensure(java.util.Arrays.equals((KEY_TYPE[])i.previous(), (KEY_TYPE[])j.previous()), "Error ("
+ seed + "): divergence in previous()");
 }

 ensure(i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex()");
 ensure(i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex()");

 }

}

{
 Object previous = null;
 Object I, J;
 int from = r.nextInt(m.size() + 1);

```

```

ObjectListIterator i;
java.util.ListIterator j;
i = m.listIterator(from);
j = t.listIterator(from);

for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext() (iterator with starting point " +
from + ")");
 ensure(i.hasPrevious() == j.hasPrevious() , "Error (" + seed + "): divergence in hasPrevious() (iterator with starting
point " + from + ")");

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure(java.util.Arrays.equals((KEY_TYPE[])i.next(), (KEY_TYPE[])j.next()), "Error (" + seed + "): divergence
in next() (iterator with starting point "
+ from + ")");
 //System.err.println("Done next " + I + " " + J + " " + badPrevious);
 }
 else if (r.nextFloat() < .2 && i.hasPrevious()) {
 ensure(java.util.Arrays.equals((KEY_TYPE[])i.previous(), (KEY_TYPE[])j.previous()), "Error (" + seed + "):
divergence in previous() (iterator with starting point " + from + ")");
 }
}

}

}

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m = (ARRAY_FRONT_CODED_LIST)ois.readObject();
 ois.close();
 ff.delete();
}
catch(Exception e) {
 e.printStackTrace();
 System.exit(1);
}

```

```
ensure(contentEquals(m, t), "Error (" + seed + "): m does not equal t after
save/read");
```

```
System.out.println("Test OK");
return;
}
```

```
public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}
```

```
#endif
```

```
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayFrontCodedList.drv

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```

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```
*
```

```
* For the sorting code:
```

```
*
```

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*/
```

Found in path(s):

```
*/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/BigArrays.java
```

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*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.Object2IntOpenHashMap;
```

```
import java.io.Serializable;
```

```
import java.util.concurrent.locks.ReentrantReadWriteLock;
```

```
import java.util.concurrent.locks.ReentrantReadWriteLock.ReadLock;
```

```
import java.util.concurrent.locks.ReentrantReadWriteLock.WriteLock;
```

```
/** A concurrent
```

```
counting map. The map is made by a number of stripes (instances of { @link
Object2IntOpenHashMap})
```

```
* which are accessed independently
```

```
* using a { @link ReentrantReadWriteLock}. Only one thread can write in a stripe at a time, but different stripes
```

```
* can be modified independently and read access can happen concurrently on each stripe.
```

```

*
* @param <K> the type of keys.
*/

public class STRIPED_OPEN_HASH_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {
 private static final long serialVersionUID = 1L;

 /** The stripes. Keys are distributed among them using the lower bits of their {@link Object#hashCode()}. */
 private final OPEN_HASH_MAP KEY_VALUE_GENERIC[] map;
 /** An array of locks parallel to {@link #map}, protecting each stripe. */
 private final transient ReentrantReadWriteLock[] lock;
 /** {@link #map.length} − 1, cached. */
 private final int mask;

 /** Creates a new concurrent counting map with
 concurrency level equal to {@link Runtime#availableProcessors()}. */
 public STRIPED_OPEN_HASH_MAP() {
 this(Runtime.getRuntime().availableProcessors());
 }

 /** Creates a new concurrent counting map.
 *
 * @param concurrencyLevel the number of stripes (it will be {@linkplain Integer#highestOneBit(int)} forced to be a
 power of two)); ideally, as large as the number of threads that will ever access
 * this map, but higher values require more space.
 */
 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public STRIPED_OPEN_HASH_MAP(final int concurrencyLevel) {
 map = new OPEN_HASH_MAP[Integer.highestOneBit(concurrencyLevel)];
 lock = new ReentrantReadWriteLock[map.length];
 for(int i = map.length; i-- != 0;) {
 map[i] = new OPEN_HASH_MAP KEY_VALUE_GENERIC();
 lock[i] = new ReentrantReadWriteLock();
 }
 mask = map.length - 1;
 }

 #if #keys(primitive)

 public VALUE_GENERIC_CLASS get(final KEY_CLASS k) {
 final int stripe = KEY2INTHASH(k) & mask;
 final ReadLock readLock
 = lock[stripe].readLock();
 try {
 readLock.lock();
 return map[stripe].get(k);
 }
 }

```



```

 finally {
 readLock.unlock();
 }
}

#endif

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) {
 final int stripe = KEY2INTHASH(k) & mask;
 final ReadLock readLock = lock[stripe].readLock();
 try {
 readLock.lock();
 return map[stripe].GET_VALUE(k);
 }
 finally {
 readLock.unlock();
 }
}

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 final int stripe = KEY2INTHASH(k) & mask;
 final WriteLock writeLock = lock[stripe].writeLock();
 try {
 writeLock.lock();
 return map[stripe].put(k, v);
 }
 finally {
 writeLock.unlock();
 }
}

public VALUE_GENERIC_TYPE putIfAbsent(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE
v) {
 final int stripe = KEY2INTHASH(k) & mask;
 final WriteLock writeLock = lock[stripe].writeLock();
 try {
 writeLock.lock();
 if
(map[stripe].containsKey(k)) return map[stripe].get(k);
 return map[stripe].put(k, v);
 }
 finally {
 writeLock.unlock();
 }
}

#if #values(primitive) || #keys(primitive)

```

```

public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov)
{
 final int stripe = KEY2INTHASH(ok) & mask;
 final WriteLock writeLock = lock[stripe].writeLock();
 try {
 writeLock.lock();
 return map[stripe].put(ok, ov);
 }
 finally {
 writeLock.unlock();
 }
}

```

```

public VALUE_GENERIC_CLASS putIfAbsent(final KEY_GENERIC_CLASS ok, final
VALUE_GENERIC_CLASS ov) {
 final int stripe = KEY2INTHASH(ok) & mask;
 final WriteLock writeLock = lock[stripe].writeLock();
 try {
 writeLock.lock();
 if (map[stripe].containsKey(ok)) return map[stripe].get(ok);
 return map[stripe].put(ok, ov);
 }
 finally {
 writeLock.unlock();
 }
}

```

#endif

```

public int size() {
 int size = 0;
 for(int stripe = lock.length; stripe-- != 0;)
 {
 final ReadLock readLock = lock[stripe].readLock();
 try {
 readLock.lock();
 size += map[stripe].size();
 }
 finally {
 readLock.unlock();
 }
 }

 return size;
}

```

```
public FastEntrySet KEY_VALUE_GENERIC ENTRYSET() {
 throw new UnsupportedOperationException();
}
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/StripedOpenHashMap.drv

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\*/

```
package PACKAGE;
```

```
/** An abstract class facilitating the creation of type-specific { @linkplain java.util.ListIterator list iterators}.
```

```
*
```

```
* <P>This class provides trivial type-specific implementations of { @link
```

```
* java.util.ListIterator#set(Object set()) and { @link java.util.ListIterator#add(Object) add()} which
```

```
* throw an { @link UnsupportedOperationException}. For primitive types, it also
```

```
* provides a trivial implementation of { @link java.util.ListIterator#set(Object) set()} and { @link
```

```
* java.util.ListIterator#add(Object) add()} that just invokes the type-specific one.
```

```
*
```

```
*
```

```
* @see java.util.ListIterator
```

```
*/
```

```
public abstract class KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC extends
```

```
KEY_ABSTRACT_BIDI_ITERATOR KEY_GENERIC implements KEY_LIST_ITERATOR KEY_GENERIC {
```

```
 protected KEY_ABSTRACT_LIST_ITERATOR() {}
```

```
 #if #keys(primitive)
```

```
 /** Delegates to the corresponding type-specific method. */
```

```

public void set(KEY_GENERIC_CLASS ok) { set(ok.KEY_VALUE()); }
/** Delegates to the corresponding type-specific method. */
public void add(KEY_GENERIC_CLASS ok) { add(ok.KEY_VALUE()); }
#endif

/** This method just throws an {@link UnsupportedOperationException}. */
public void set(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
/** This method just throws an {@link UnsupportedOperationException}.
*/
public void add(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractListIterator.drv

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*/

```

```

package PACKAGE;

```

```

import java.util.NoSuchElementException;

```

```

import it.unimi.dsi.fastutil.PriorityQueue;

```

```

/** A type-specific {@link PriorityQueue}; provides some additional methods that use polymorphism to avoid
(un)boxing.

```

```

 *
 * <P>Additionally, this interface strengthens {@link #comparator()}.
 */

```

```

public interface PRIORITY_QUEUE extends PriorityQueue<KEY_CLASS> {

```

```

/** Enqueues a new element.

```

```

*
* @param x the element to enqueue.
*/

void enqueue(KEY_GENERIC_TYPE x);

/** Dequeues the { @linkplain #first() first} element from the queue.
*
* @return the dequeued element.
* @throws NoSuchElementException if the queue is empty.
*/

KEY_GENERIC_TYPE DEQUEUE();

/** Returns the first element of the queue.
*
* @return the first element.
* @throws NoSuchElementException if the queue is empty.
*/

KEY_GENERIC_TYPE FIRST();

/** Returns the last element of the queue, that is, the element the would be dequeued last (optional operation).
*
* @return the last element.
* @throws NoSuchElementException if the queue is empty.
*/

KEY_GENERIC_TYPE LAST();

/** Returns the comparator associated with this sorted set, or null if it uses its elements' natural ordering.
*
* <P>Note that this specification strengthens the one given in { @link PriorityQueue#comparator()}.
*
* @see PriorityQueue#comparator()
*/

KEY_COMPARATOR comparator();
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/PriorityQueue.drv

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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2FloatArrayMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2LongArrayMap.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/object/Object2ReferenceArrayMap.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/Double2LongArrayMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/Long2DoubleArrayMap.java  
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/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ObjectArraySet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
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jar/it/unimi/dsi/fastutil/longs/Long2ByteArrayMap.java



\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2IntArrayMap.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanArraySet.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/int/Int2ByteArrayMap.java  
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jar/it/unimi/dsi/fastutil/longs/Long2ShortArrayMap.java
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\*/

package PACKAGE;

import it.unimi.dsi.fastutil.Function;

/\*\* A type-specific {@link Function}; provides some additional methods that use polymorphism to avoid (un)boxing.

\*

\* <P>Type-specific versions of `get()`, `put()` and

\* `remove()` cannot rely on `null` to denote absence of

\* a key. Rather, they return a {@linkplain #defaultReturnValue() default

\* return value}, which is set to 0 cast to the return type (`false`

\* for booleans) at creation, but can be changed using the

\* `defaultReturnValue()` method.

\*

\* <P>For uniformity reasons, even maps returning objects implement the default

\* return value (of course, in this case the default return value is

\* initialized to `null`).

\*

\* <P><strong>Warning:</strong> to fall in line as much as possible with the

\* {@linkplain java.util.Map standard map interface}, it is strongly suggested

\* that standard versions of `get()`, `put()` and

\* `remove()` for maps with primitive-type values *return*

\* `null` to denote missing keys rather than wrap the default

\* return value in an object (of course, for maps with object keys and values

\* this is not possible, as there is no type-specific version).

\*

\* @see Function

\*/

public interface FUNCTION KEY\_VALUE\_GENERIC extends Function<KEY\_GENERIC\_CLASS, VALUE\_GENERIC\_CLASS> {

#if #keys(primitive) || #values(primitive)

/\*\* Adds a pair to the map.

\*

\* @param key the key.

\* @param value the value.

\* @return the old value, or the {@linkplain #defaultReturnValue() default return value} if no value was present for the given key.

```

* @see Function#put(Object,Object)
*/

VALUE_GENERIC_TYPE put(KEY_GENERIC_TYPE key, VALUE_GENERIC_TYPE value);

/** Returns the value to which the given key is mapped.
*
* @param key the key.
* @return the corresponding value, or the {@linkplain #defaultReturnValue() default return value} if no value was
present for the given key.
* @see Function#get(Object)
*/

VALUE_GENERIC_TYPE GET_VALUE(KEY_TYPE key);

/** Removes the mapping with the given key.
* @param key the key.
* @return the old value, or the {@linkplain #defaultReturnValue() default return value} if no value was present for
the
given key.
* @see Function#remove(Object)
*/

VALUE_GENERIC_TYPE REMOVE_VALUE(KEY_TYPE key);
#endif

#if #keys(primitive)

/**
* @see Function#containsKey(Object)
*/

boolean containsKey(KEY_TYPE key);

#endif

/** Sets the default return value.
*
* This value must be returned by type-specific versions of
* get(), put() and remove() to
* denote that the map does not contain the specified key. It must be
* 0/false/null by default.
*
* @param rv the new default return value.
* @see #defaultReturnValue()
*/

void defaultReturnValue(VALUE_GENERIC_TYPE rv);

```

```

/** Gets the default return value.
 *
 * @return the current default return value.
 */

VALUE_GENERIC_TYPE defaultReturnValue();

}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Function.drv
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```

```

/*
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 */

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ReferenceBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharBigList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/AbstractFloatBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/BigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/floats/FloatBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/bytes/ByteBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-

```

jar/it/unimi/dsi/fastutil/BigSwapper.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ObjectBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/AbstractLongBigList.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/AbstractByteBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/booleans/BooleanBigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/doubles/DoubleBigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/FloatArrayFIFOQueue.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/Swapper.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/IntArrayFIFOQueue.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/ShortArrayFIFOQueue.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/LongBigList.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/ShortBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/ByteBigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/longs/LongBigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/floats/FloatBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/AbstractObjectBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/objects/ObjectArrayFIFOQueue.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/AbstractIntBigList.java  
\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/BigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/bytes/ByteArrayFIFOQueue.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/ints/IntBigListIterator.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/chars/AbstractCharBigList.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-  
jar/it/unimi/dsi/fastutil/shorts/ShortBigListIterator.java

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/Size64.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharBigListIterator.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/ObjectBigListIterator.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractReferenceBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/BooleanBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/longs/LongArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharArrayFIFOQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoubleBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/ints/IntBigList.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShortBigList.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/booleans/AbstractBooleanBigList.java
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```

```
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*/
```

```
package PACKAGE;
```

```
import java.util.Collection;
```

```

import it.unimi.dsi.fastutil.objects.ObjectArrays;

/** A class providing static methods and objects that do useful things with type-specific collections.
 *
 * @see java.util.Collections
 */

public class COLLECTIONS {

 private COLLECTIONS() {}

 /** An immutable
 class representing an empty type-specific collection.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific collection.
 */

 public abstract static class EmptyCollection KEY_GENERIC extends ABSTRACT_COLLECTION
 KEY_GENERIC {

 protected EmptyCollection() {}

 public boolean add(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }

 public boolean contains(KEY_TYPE k) { return false; }

 public Object[] toArray() { return ObjectArrays.EMPTY_ARRAY; }

 #if #keys(primitive)
 public KEY_TYPE[] TO_KEY_ARRAY(KEY_TYPE[] a) { return a; }
 public KEY_TYPE[] TO_KEY_ARRAY() { return ARRAYS.EMPTY_ARRAY; }

 public boolean rem(KEY_TYPE k) { throw new UnsupportedOperationException(); }
 public boolean addAll(COLLECTION c) { throw new UnsupportedOperationException(); }
 public boolean removeAll(COLLECTION c) { throw new UnsupportedOperationException(); }
 public boolean retainAll(COLLECTION c) { throw new
 UnsupportedOperationException(); }
 public boolean containsAll(COLLECTION c) { return c.isEmpty(); }
 #else
 public boolean remove(final Object k) { throw new UnsupportedOperationException(); }
 public <T> T[] toArray(T[] a) { return a; }
 #endif

 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return ITERATORS.EMPTY_ITERATOR; }
 }
}

```



```

public int size() { return 0; }
public void clear() {}

public int hashCode() { return 0; }
public boolean equals(Object o) {
 if (o == this) return true;
 if (! (o instanceof Collection)) return false;
 return ((Collection<?>)o).isEmpty();
}
}

/** A synchronized wrapper class for collections. */

public static class SynchronizedCollection KEY_GENERIC implements COLLECTION KEY_GENERIC,
java.io.Serializable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected final COLLECTION KEY_GENERIC collection;
 protected final Object sync;

 protected SynchronizedCollection(
final COLLECTION KEY_GENERIC c, final Object sync) {
 if (c == null) throw new NullPointerException();
 this.collection = c;
 this.sync = sync;
 }

 protected SynchronizedCollection(final COLLECTION KEY_GENERIC c) {
 if (c == null) throw new NullPointerException();
 this.collection = c;
 this.sync = this;
 }

 public int size() { synchronized(sync) { return collection.size(); } }
 public boolean isEmpty() { synchronized(sync) { return collection.isEmpty(); } }
 public boolean contains(final KEY_TYPE o) { synchronized(sync) { return collection.contains(o); } }

 public KEY_TYPE[] TO_KEY_ARRAY() { synchronized(sync) { return collection.TO_KEY_ARRAY(); } }

 #if #keys(primitive)
 public Object[] toArray() { synchronized(sync) { return collection.toArray(); } }
 public KEY_TYPE[] TO_KEY_ARRAY(final KEY_TYPE[] a) { synchronized(sync) { return
collection.TO_KEY_ARRAY(a); } }
 public KEY_TYPE[] toArray(final KEY_TYPE[] a) { synchronized(

```

```

sync) { return collection.TO_KEY_ARRAY(a); } }

public boolean addAll(final COLLECTION c) { synchronized(sync) { return collection.addAll(c); } }
public boolean containsAll(final COLLECTION c) { synchronized(sync) { return collection.containsAll(c); } }
public boolean removeAll(final COLLECTION c) { synchronized(sync) { return collection.removeAll(c); } }
public boolean retainAll(final COLLECTION c) { synchronized(sync) { return collection.retainAll(c); } }

public boolean add(final KEY_GENERIC_CLASS k) { synchronized(sync) { return collection.add(k); } }
public boolean contains(final Object k) { synchronized(sync) { return collection.contains(k); } }
#endif

public <T> T[] toArray(final T[] a) { synchronized(sync) { return collection.toArray(a); } }

public KEY_ITERATOR KEY_GENERIC iterator() { return collection.iterator(); }

@Deprecated
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }

public
boolean add(final KEY_GENERIC_TYPE k) { synchronized(sync) { return collection.add(k); } }
public boolean rem(final KEY_TYPE k) { synchronized(sync) { return collection.REMOVE(k); } }
public boolean remove(final Object ok) { synchronized(sync) { return collection.remove(ok); } }

public boolean addAll(final Collection<? extends KEY_GENERIC_CLASS> c) { synchronized(sync) { return
collection.addAll(c); } }
public boolean containsAll(final Collection<?> c) { synchronized(sync) { return collection.containsAll(c); } }
public boolean removeAll(final Collection<?> c) { synchronized(sync) { return collection.removeAll(c); } }
public boolean retainAll(final Collection<?> c) { synchronized(sync) { return collection.retainAll(c); } }

public void clear() { synchronized(sync) { collection.clear(); } }
public String toString() { synchronized(sync) { return collection.toString(); } }
}

/** Returns a synchronized collection
backed by the specified collection.
*
* @param c the collection to be wrapped in a synchronized collection.
* @return a synchronized view of the specified collection.
* @see java.util.Collections#synchronizedCollection(Collection)
*/
public static KEY_GENERIC COLLECTION KEY_GENERIC synchronize(final COLLECTION
KEY_GENERIC c) { return new SynchronizedCollection KEY_GENERIC(c); }

/** Returns a synchronized collection backed by the specified collection, using an assigned object to synchronize.
*
* @param c the collection to be wrapped in a synchronized collection.
* @param sync an object that will be used to synchronize the list access.

```

```

* @return a synchronized view of the specified collection.
* @see java.util.Collections#synchronizedCollection(Collection)
*/

public static KEY_GENERIC COLLECTION KEY_GENERIC synchronize(final COLLECTION
KEY_GENERIC c, final Object sync) { return new SynchronizedCollection KEY_GENERIC(c, sync); }

/** An unmodifiable wrapper
class for collections. */

public static class UnmodifiableCollection KEY_GENERIC implements COLLECTION KEY_GENERIC,
java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final COLLECTION KEY_GENERIC collection;

protected UnmodifiableCollection(final COLLECTION KEY_GENERIC c) {
if (c == null) throw new NullPointerException();
this.collection = c;
}

public int size() { return collection.size(); }
public boolean isEmpty() { return collection.isEmpty(); }
public boolean contains(final KEY_TYPE o) { return collection.contains(o); }

public KEY_ITERATOR KEY_GENERIC iterator() { return ITERATORS.unmodifiable(collection.iterator()); }

@Deprecated
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }

public boolean add(final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
public boolean remove(final Object ok) { throw new UnsupportedOperationException(); }
}

public boolean addAll(final Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
public boolean containsAll(final Collection<?> c) { return collection.containsAll(c); }
public boolean removeAll(final Collection<?> c) { throw new UnsupportedOperationException(); }
public boolean retainAll(final Collection<?> c) { throw new UnsupportedOperationException(); }

public void clear() { throw new UnsupportedOperationException(); }
public String toString() { return collection.toString(); }

public <T> T[] toArray(final T[] a) { return collection.toArray(a); }

public Object[] toArray() { return collection.toArray(); }

```

```

#if #keys(primitive)
public KEY_TYPE[] TO_KEY_ARRAY() { return collection.TO_KEY_ARRAY(); }
public KEY_TYPE[] TO_KEY_ARRAY(final KEY_TYPE[] a) { return collection.TO_KEY_ARRAY(a); }
public KEY_TYPE[] toArray(final KEY_TYPE[] a) { return collection.toArray(a); }
public boolean rem(final KEY_TYPE
k) { throw new UnsupportedOperationException(); }

public boolean addAll(final COLLECTION c) { throw new UnsupportedOperationException(); }
public boolean containsAll(final COLLECTION c) { return collection.containsAll(c); }
public boolean removeAll(final COLLECTION c) { throw new UnsupportedOperationException(); }
public boolean retainAll(final COLLECTION c) { throw new UnsupportedOperationException(); }

public boolean add(final KEY_GENERIC_CLASS k) { throw new UnsupportedOperationException(); }
public boolean contains(final Object k) { return collection.contains(k); }
#endif
}

/** Returns an unmodifiable collection backed by the specified collection.
 *
 * @param c the collection to be wrapped in an unmodifiable collection.
 * @return an unmodifiable view of the specified collection.
 * @see java.util.Collections#unmodifiableCollection(Collection)
 */
public static KEY_GENERIC COLLECTION KEY_GENERIC unmodifiable(final COLLECTION
KEY_GENERIC
c) { return new UnmodifiableCollection KEY_GENERIC(c); }

/** A collection wrapper class for iterables. */

public static class IterableCollection KEY_GENERIC extends ABSTRACT_COLLECTION KEY_GENERIC
implements java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final KEY_ITERABLE KEY_GENERIC iterable;

protected IterableCollection(final KEY_ITERABLE KEY_GENERIC iterable) {
if (iterable == null) throw new NullPointerException();
this.iterable = iterable;
}

public int size() {
int c = 0;
final KEY_ITERATOR KEY_GENERIC iterator = iterator();
while(iterator.hasNext()) {
iterator.next();
}
}
}

```

```

 c++;
}

return c;
}

public boolean isEmpty() { return iterable.iterator().hasNext(); }
public KEY_ITERATOR KEY_GENERIC iterator() { return iterable.iterator(); }

@Deprecated
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }
}

/** Returns an unmodifiable collection
backed by the specified iterable.
*
* @param iterable the iterable object to be wrapped in an unmodifiable collection.
* @return an unmodifiable collection view of the specified iterable.
*/
public static KEY_GENERIC COLLECTION KEY_GENERIC asCollection(final KEY_ITERABLE
KEY_GENERIC iterable) {
 if (iterable instanceof COLLECTION) return (COLLECTION KEY_GENERIC)iterable;
 return new IterableCollection KEY_GENERIC(iterable);
}
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Collections.drv

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* limitations under the License.
*/

```

```

package PACKAGE;

import VALUE_PACKAGE.VALUE_COLLECTION;

import it.unimi.dsi.fastutil.objects.ObjectSortedSet;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;

import java.util.Map;
import java.util.SortedMap;

#if #keys(reference)
import java.util.Comparator;
#endif

/** A type-specific {@link
SortedMap}; provides some additional methods that use polymorphism to avoid (un)boxing.
*
* <P>Additionally, this interface strengthens {@link #entrySet()},
* {@link #keySet()}, {@link #values()},
* {@link #comparator()}, {@link SortedMap#subMap(Object,Object)}, {@link SortedMap#headMap(Object)} and
* {@link SortedMap#tailMap(Object)}.
*
* @see SortedMap
*/

public interface SORTED_MAP KEY_VALUE_GENERIC extends MAP KEY_VALUE_GENERIC,
SortedMap<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> {

/** A sorted entry set providing fast iteration.
*
* <p>In some cases (e.g., hash-based classes) iteration over an entry set requires the creation
* of a large number of entry objects. Some <code>fastutil</code>
* maps might return {@linkplain #entrySet() entry set} objects of type <code>FastSortedEntrySet</code>; in this
case, {@link #fastIterator() fastIterator()}
* will return an iterator that is guaranteed not to create a large number of objects, possibly
* by returning always the
same entry (of course, mutated).
*/

public interface FastSortedEntrySet KEY_VALUE_GENERIC extends ObjectSortedSet<MAP.Entry
KEY_VALUE_GENERIC>, FastEntrySet KEY_VALUE_GENERIC {

/** Returns a fast iterator over this sorted entry set; the iterator might return always the same entry object, suitably
mutated.
*
* @return a fast iterator over this sorted entry set; the iterator might return always the same entry object, suitably
mutated.
*/

public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator(MAP.Entry

```

```
KEY_VALUE_GENERIC from);
```

```
}
```

```
/** Returns a sorted-set view of the mappings contained in this map.
```

```
* Note that this specification strengthens the one given in the
* corresponding type-specific unsorted map.
```

```
*
```

```
* @return a sorted-set view of the mappings contained in this map.
```

```
* @see Map#entrySet()
```

```
*/
```

```
ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet();
```

```
/** Returns a type-specific sorted-set view of the
mappings contained in this map.
```

```
* Note that this specification strengthens the one given in the
* corresponding type-specific unsorted map.
```

```
*
```

```
* @return a type-specific sorted-set view of the mappings contained in this map.
```

```
* @see #entrySet()
```

```
*/
```

```
ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET();
```

```
/** Returns a sorted-set view of the keys contained in this map.
```

```
* Note that this specification strengthens the one given in the
* corresponding type-specific unsorted map.
```

```
*
```

```
* @return a sorted-set view of the keys contained in this map.
```

```
* @see Map#keySet()
```

```
*/
```

```
SORTED_SET KEY_GENERIC keySet();
```

```
/** Returns a set view of the values contained in this map.
```

```
* <P>Note that this specification strengthens the one given in { @link Map#values() },
* which was already strengthened in the corresponding type-specific class,
* but was weakened by the fact that this interface extends { @link SortedMap }.
```

```
*
```

```
* @return a set view of the values contained in this map.
```

```
* @see Map#values()
```

```
*/
```

```
VALUE_COLLECTION VALUE_GENERIC values();
```

```
/** Returns the comparator associated with this sorted set, or null if it uses its keys' natural ordering.
```

```
*
```

```
* <P>Note that this specification strengthens the one given in { @link SortedMap#comparator() }.
```

```

*
* @see SortedMap#comparator()
*/
KEY_COMPARATOR KEY_SUPER_GENERIC comparator();

/** Returns a view of the portion of this sorted map whose keys range from <code>fromKey</code>, inclusive, to
<code>toKey</code>, exclusive.
*
* <P>Note that this specification strengthens the one given in { @link SortedMap#subMap(Object, Object)}.
*
* @see SortedMap#subMap(Object, Object)
*/
SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_CLASS fromKey, KEY_GENERIC_CLASS
toKey);

/** Returns a view of the portion of this sorted map whose keys are strictly less than <code>toKey</code>.
*
* <P>Note that this specification strengthens the one given in { @link SortedMap#headMap(Object)}.
*
* @see SortedMap#headMap(Object)
*/
SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_GENERIC_CLASS toKey);

/** Returns a view of the portion of this sorted map whose keys are greater than or equal to
<code>fromKey</code>.
*
* <P>Note that this specification strengthens the one given in { @link SortedMap#tailMap(Object)}.
*
* @see SortedMap#tailMap(Object)
*/
SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_GENERIC_CLASS fromKey);

#if #keys(primitive)
/** Returns a view of the portion of this sorted map whose keys range from <code>fromKey</code>, inclusive, to
<code>toKey</code>, exclusive.
* @see SortedMap#subMap(Object, Object)
*/
SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_TYPE fromKey, KEY_TYPE toKey);

/** Returns a view of the portion of this sorted map whose keys are strictly less than <code>toKey</code>.
* @see SortedMap#headMap(Object)
*/
SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_TYPE toKey);

/** Returns a view of the portion of this sorted map whose keys are greater than or equal to
<code>fromKey</code>.
* @see SortedMap#tailMap(Object)

```



```

*/
SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_TYPE fromKey);

/**
 * @see SortedMap#firstKey()
 */
KEY_TYPE FIRST_KEY();

/**
 * @see SortedMap#lastKey()
 */
KEY_TYPE LAST_KEY();
#endif
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SortedMap.drv

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```

/*
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 *
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

```

```
package PACKAGE;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSet;
import it.unimi.dsi.fastutil.objects.ObjectIterator;
```

```
import java.util.Map;
```

```
/** A type-specific {@link Map}; provides some additional methods that use polymorphism to avoid (un)boxing,
and handling of a default
```

```

return value.
*
* <P>Besides extending the corresponding type-specific { @link plain it.unimi.dsi.fastutil.Function function}, this
interface strengthens { @link #entrySet()},
* { @link #keySet()} and { @link #values()}. Maps returning entry sets of type { @link FastEntrySet} support also
fast iteration.
*
* <P>A submap or subset may or may not have an
* independent default return value (which however must be initialized to the
* default return value of the originator).
*
* @see Map
*/

```

```

public interface MAP KEY_VALUE_GENERIC extends FUNCTION KEY_VALUE_GENERIC,
Map<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> {

```

```

/** An entry set providing fast iteration.
*
* <p>In some cases (e.g., hash-based classes) iteration over an entry set requires the creation
* of a large number of { @link java.util.Map.Entry} objects. Some <code>fastutil</code>
* maps might return { @link plain #entrySet() entry set} objects of type <code>FastEntrySet</code>: in this case,
{ @link #fastIterator() fastIterator()}
*
* will return an iterator that is guaranteed not to create a large number of objects, possibly
* by returning always the same entry (of course, mutated).
*/

```

```

public interface FastEntrySet KEY_VALUE_GENERIC extends ObjectSet<MAP.Entry
KEY_VALUE_GENERIC> {
/** Returns a fast iterator over this entry set; the iterator might return always the same entry object, suitably
mutated.
*
* @return a fast iterator over this entry set; the iterator might return always the same { @link java.util.Map.Entry}
object, suitably mutated.
*/
public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator();
}

```

```

/** Returns a set view of the mappings contained in this map.
* <P>Note that this specification strengthens the one given in { @link Map#entrySet()}.
*
* @return a set view of the mappings contained in this map.
* @see Map#entrySet()
*/

```

```

ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet();

```

```

/** Returns a type-specific set view of
the mappings contained in this map.
*
* <p>This method is necessary because there is no inheritance along
* type parameters: it is thus impossible to strengthen { @link #entrySet()}
* so that it returns an { @link it.unimi.dsi.fastutil.objects.ObjectSet}
* of type-specific entries (the latter makes it possible to
* access keys and values with type-specific methods).
*
* @return a type-specific set view of the mappings contained in this map.
* @see #entrySet()
*/

```

```

ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET();

```

```

/** Returns a set view of the keys contained in this map.
* <P>Note that this specification strengthens the one given in { @link Map#keySet()}.
*
* @return a set view of the keys contained in this map.
* @see Map#keySet()
*/

```

```

SET KEY_GENERIC keySet();

```

```

/** Returns a set view of the values contained in this map.
* <P>Note that this specification strengthens the one given in { @link Map#values()}.
*
* @return a set view of the values contained
in this map.
* @see Map#values()
*/

```

```

VALUE_COLLECTION VALUE_GENERIC values();

```

```

#if #values(primitive)

```

```

/**
* @see Map#containsValue(Object)
*/

```

```

boolean containsValue(VALUE_TYPE value);

```

```

#endif

```

```

/** A type-specific { @link java.util.Map.Entry }; provides some additional methods
* that use polymorphism to avoid (un)boxing.
*

```

```

* @see java.util.Map.Entry
*/

interface Entry KEY_VALUE_GENERIC extends Map.Entry
<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> {

#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
KEY_GENERIC_CLASS getKey();
#endif

#if #keys(primitive)
/**
 * @see java.util.Map.Entry#getKey()
 */
KEY_TYPE ENTRY_GET_KEY();
#endif

#if #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
VALUE_GENERIC_CLASS getValue();
#endif

#if #values(primitive)
/**
 * @see
 java.util.Map.Entry#setValue(Object)
 */
VALUE_TYPE setValue(VALUE_TYPE value);

/**
 * @see java.util.Map.Entry#getValue()
 */
VALUE_TYPE ENTRY_GET_VALUE();
#endif

}
}

```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Map.drv
```

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```
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*
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* distributed under the License is distributed on an "AS IS" BASIS,
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*
*
*
* For the sorting and binary search code:
*
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* supporting documentation. CERN makes no representations about the
* suitability of this software for any purpose. It is provided "as is"
* without expressed or implied warranty.
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.Arrays;
import it.unimi.dsi.fastutil.Hash;
import java.util.Random;
import java.util.concurrent.ForkJoinPool;
import java.util.concurrent.RecursiveAction;
```

```
#if ! #keyclass(Integer)
import it.unimi.dsi.fastutil.ints.IntArrays;
#endif
```

```
#if #keys(primitive)
```

```
#if ! #keyclass(Boolean)
```

```

import java.util.concurrent.Callable;
import java.util.concurrent.ExecutorCompletionService;
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
import java.util.concurrent.LinkedBlockingQueue;
import java.util.concurrent.atomic.AtomicInteger;
#endif

/** A class providing static methods and objects that do useful things with type-specific arrays.
 *
 * <p>In particular, the ensureCapacity(), grow(),
 * trim() and setLength() methods allow to handle
 * arrays much like array lists. This can be very useful when efficiency (or
 * syntactic simplicity) reasons make array lists unsuitable.
 *
 * <p>Note that { @link it.unimi.dsi.fastutil.io.BinIO } and { @link it.unimi.dsi.fastutil.io.TextIO }
 * contain several methods make it possible to load and save arrays of primitive types as sequences
 * of elements in { @link java.io.DataInput } format (i.e., not as objects) or as sequences of lines of text.
 *
 * <h2>Sorting</h2>
 *
 * <p>There are several sorting methods available. The main theme is that of letting you choose
 * the sorting algorithm you prefer (i.e., trading stability of mergesort for no memory allocation in quicksort).
 * Several algorithms provide a parallel version, that will use the { @linkplain Runtime#availableProcessors()
 * number of cores available }.
 *
 * Some algorithms
 * also provide an explicit indirect sorting facility, which makes it possible
 * to sort an array using the values in another array as comparator.
 *
 * <p>All comparison-based algorithm have an implementation based on a type-specific comparator.
 *
 * <p>As a general rule, sequential radix sort is significantly faster than quicksort or mergesort, in particular
 * on random-looking data. In
 * the parallel case, up to a few cores parallel radix sort is still the fastest, but at some point quicksort
 * exploits parallelism better.
 *
 * <p>If you are fine with not knowing exactly which algorithm will be run (in particular, not knowing exactly
 * whether a support array will be allocated),
 * the dual-pivot parallel sorts in { @link java.util.Arrays }
 * are about 50% faster than the classical single-pivot implementation used here.
 *
 * <p>In any case, if sorting time is important I suggest that you benchmark your sorting load
 * with your data distribution and on your architecture.
 *
 * @see java.util.Arrays
 */
public class ARRAYS {

```

```
#else
```

```
import java.util.Comparator;
```

```
/** A class providing static methods and objects that do useful things with type-specific arrays.
```

```
*
```

```
* In particular, the ensureCapacity(), grow(),
```

```
* trim() and setLength() methods allow to handle
```

```
* arrays much like array lists. This can be very useful when efficiency (or
```

```
* syntactic simplicity) reasons make array lists unsuitable.
```

```
*
```

```
* Warning: if your array is not of type { Object[],
```

```
* { #ensureCapacity\(Object\[\],int,int\) } and { #grow\(Object\[\],int,int\) }
```

```
* will use { #newInstance\(Class,int\) reflection }
```

```
* to preserve your array type. Reflection is significantly slower than using new.
```

```
* This phenomenon is particularly
```

```
* evident in the first growth phases of an array reallocated with doubling (or similar) logic.
```

```
*
```

```
*

Sorting


```

```
*
```

```
*
```

```
<p>There are several sorting methods available. The main theme is that of letting you choose
```

```
* the sorting algorithm you prefer (i.e., trading stability of mergesort for no memory allocation in quicksort).
```

```
* Several algorithms provide a parallel version, that will use the { #availableProcessors\(\) number of cores available }.
```

```
*
```

```
* <p>All comparison-based algorithm have an implementation based on a type-specific comparator.
```

```
*
```

```
* <p>If you are fine with not knowing exactly which algorithm will be run (in particular, not knowing exactly whether a support array will be allocated),
```

```
* the dual-pivot parallel sorts in { java.util.Arrays }
```

```
* are about 50% faster than the classical single-pivot implementation used here.
```

```
*
```

```
* <p>In any case, if sorting time is important I suggest that you benchmark your sorting load
```

```
* with your data distribution and on your architecture.
```

```
*
```

```
* @see java.util.Arrays
```

```
*/
```

```
public class ARRAYS {
```

```
#endif
```

```
private ARRAYS() {}
```

```
/** A static,
```

```
final, empty array. */
```

```
public final static KEY_TYPE[] EMPTY_ARRAY = {};
```

```

#if #keyclass(Object)
/** Creates a new array using a the given one as prototype.
 *
 * <P>This method returns a new array of the given length whose element
 * are of the same class as of those of <code>prototype</code>. In case
 * of an empty array, it tries to return { @link #EMPTY_ARRAY }, if possible.
 *
 * @param prototype an array that will be used to type the new one.
 * @param length the length of the new array.
 * @return a new array of given type and length.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
private static <K> K[] newArray(final K[] prototype, final int length) {
 final Class<?> klass = prototype.getClass();
 if (klass == Object[].class) return (K[])(length == 0 ? EMPTY_ARRAY : new Object[length]);
 return (K[])java.lang.reflect.Array.newInstance(klass.getComponentType(), length);
}
#endif

/** Ensures that an array can contain the given number of entries.
 *
 * <P>If
you cannot foresee whether this array will need again to be
 * enlarged, you should probably use <code>grow()</code> instead.
 *
 * @param array an array.
 * @param length the new minimum length for this array.
 * @return <code>array</code>, if it contains <code>length</code> entries or more; otherwise,
 * an array with <code>length</code> entries whose first <code>array.length</code>
 * entries are the same as those of <code>array</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[] ensureCapacity(final KEY_GENERIC_TYPE[] array,
final int length) {
 if (length > array.length) {
 final KEY_GENERIC_TYPE t[] =
#if #keyclass(Object)
 newArray(array, length);
#else
 new KEY_TYPE[length];
#endif
 System.arraycopy(array, 0, t, 0, array.length);
 return t;
 }
 return array;
}

```



```

/** Ensures that an array can contain the given number of entries, preserving just a part of the array.
 *
 * @param array an array.
 * @param length the new minimum length for
this array.
 * @param preserve the number of elements of the array that must be preserved in case a new allocation is
necessary.
 * @return <code>array</code>, if it can contain <code>length</code> entries or more; otherwise,
 * an array with <code>length</code> entries whose first <code>preserve</code>
 * entries are the same as those of <code>array</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[] ensureCapacity(final KEY_GENERIC_TYPE[] array,
final int length, final int preserve) {
 if (length > array.length) {
 final KEY_GENERIC_TYPE t[] =
#if #keyclass(Object)
 newArray(array, length);
#else
 new KEY_TYPE[length];
#endif
 System.arraycopy(array, 0, t, 0, preserve);
 return t;
 }
 return array;
}

```

```

/** Grows the given array to the maximum between the given length and
 * the current length multiplied by two, provided that the given
 * length is larger than the current length.
 *
 * <P>If you want complete control on the array growth, you

```

```

 * should probably use <code>ensureCapacity()</code> instead.
 *
 * @param array an array.
 * @param length the new minimum length for this array.
 * @return <code>array</code>, if it can contain <code>length</code>
 * entries; otherwise, an array with
 * max(<code>length</code>,<code>array.length</code>/φ) entries whose first
 * <code>array.length</code> entries are the same as those of <code>array</code>.
 * */

```

```

public static KEY_GENERIC KEY_GENERIC_TYPE[] grow(final KEY_GENERIC_TYPE[] array, final int
length) {
 if (length > array.length) {
 final int newLength = (int)Math.max(Math.min(2L * array.length, Arrays.MAX_ARRAY_SIZE), length);
 final KEY_GENERIC_TYPE t[] =

```

```

 #if #keyclass(Object)
 newArray(array, newLength);
 #else
 new KEY_TYPE[newLength];
 #endif
 System.arraycopy(array, 0, t, 0, array.length);
 return t;
}
return array;
}

/** Grows the given array to the maximum between the given length and
 * the current length multiplied by
two, provided that the given
 * length is larger than the current length, preserving just a part of the array.
 *
 * <P>If you want complete control on the array growth, you
 * should probably use <code>ensureCapacity()</code> instead.
 *
 * @param array an array.
 * @param length the new minimum length for this array.
 * @param preserve the number of elements of the array that must be preserved in case a new allocation is
necessary.
 * @return <code>array</code>, if it can contain <code>length</code>
 * entries; otherwise, an array with
 * max(<code>length</code>, <code>array.length</code>/φ) entries whose first
 * <code>preserve</code> entries are the same as those of <code>array</code>.
 * */

public static KEY_GENERIC KEY_GENERIC_TYPE[] grow(final KEY_GENERIC_TYPE[] array, final int
length, final int preserve) {

 if (length > array.length) {
 final int newLength = (int)Math.max(Math.min(2L * array.length, Arrays.MAX_ARRAY_SIZE), length);

 final KEY_GENERIC_TYPE
t[] =
 #if #keyclass(Object)
 newArray(array, newLength);
 #else
 new KEY_TYPE[newLength];
 #endif
 System.arraycopy(array, 0, t, 0, preserve);

 return t;
}
return array;
}

```

```

}

/** Trims the given array to the given length.
 *
 * @param array an array.
 * @param length the new maximum length for the array.
 * @return <code>array</code>, if it contains <code>length</code>
 * entries or less; otherwise, an array with
 * <code>length</code> entries whose entries are the same as
 * the first <code>length</code> entries of <code>array</code>.
 *
 */

public static KEY_GENERIC KEY_GENERIC_TYPE[] trim(final KEY_GENERIC_TYPE[] array, final int length
) {
 if (length >= array.length) return array;
 final KEY_GENERIC_TYPE t[] =
#if #keyclass(Object)
 newArray(array, length);
#else
 length == 0 ? EMPTY_ARRAY : new KEY_TYPE[length];
#endif
 System.arraycopy(array, 0, t, 0, length);
 return t;
}

/** Sets the length of the given array.
 *
 * @param array an array.
 * @param length the new length for the array.
 * @return <code>array</code>, if it contains exactly <code>length</code>
 * entries; otherwise, if it contains more than
 * <code>length</code> entries, an array with <code>length</code> entries
 * whose entries are the same as the first <code>length</code> entries of
 * <code>array</code>; otherwise, an array with <code>length</code> entries
 * whose first <code>array.length</code> entries are the same as those of
 * <code>array</code>.
 *
 */

public static KEY_GENERIC KEY_GENERIC_TYPE[] setLength(final KEY_GENERIC_TYPE[] array, final int
length) {
 if (length == array.length) return array;
 if (length < array.length) return trim(array, length);
 return ensureCapacity(array, length);
}

```

```

/** Returns a copy of a portion of an array.
 *
 * @param array an array.
 * @param offset the first element to copy.
 * @param length the number of elements to copy.
 * @return a new
array containing <code>length</code> elements of <code>array</code> starting at <code>offset</code>.
 */

public static KEY_GENERIC KEY_GENERIC_TYPE[] copy(final KEY_GENERIC_TYPE[] array, final int
offset, final int length) {
 ensureOffsetLength(array, offset, length);
 final KEY_GENERIC_TYPE[] a =
#if #keyclass(Object)
 newArray(array, length);
#else
 length == 0 ? EMPTY_ARRAY : new KEY_TYPE[length];
#endif
 System.arraycopy(array, offset, a, 0, length);
 return a;
}

/** Returns a copy of an array.
 *
 * @param array an array.
 * @return a copy of <code>array</code>.
 */

public static KEY_GENERIC KEY_GENERIC_TYPE[] copy(final KEY_GENERIC_TYPE[] array) {
 return array.clone();
}

/** Fills the given array with the given value.
 *
 * @param array an array.
 * @param value the new value for all elements of the array.
 * @deprecated Please use the corresponding { @link java.util.Arrays } method.
 */

@Deprecated
public static KEY_GENERIC void fill(
final KEY_GENERIC_TYPE[] array, final KEY_GENERIC_TYPE value) {
 int i = array.length;
 while(i-- != 0) array[i] = value;
}

/** Fills a portion of the given array with the given value.
 *

```

```

* @param array an array.
* @param from the starting index of the portion to fill (inclusive).
* @param to the end index of the portion to fill (exclusive).
* @param value the new value for all elements of the specified portion of the array.
* @deprecated Please use the corresponding { @link java.util.Arrays } method.
*/

```

@Deprecated

```

public static KEY_GENERIC void fill(final KEY_GENERIC_TYPE[] array, final int from, int to, final
KEY_GENERIC_TYPE value) {
 ensureFromTo(array, from, to);
 if (from == 0) while(to-- != 0) array[to] = value;
 else for(int i = from; i < to; i++) array[i] = value;
}

```

```

/** Returns true if the two arrays are elementwise equal.

```

```

*
* @param a1 an array.
* @param a2 another array.
* @return true if the two arrays are of the same
length, and their elements are equal.
* @deprecated Please use the corresponding { @link java.util.Arrays } method, which is intrinsified in recent JVMs.
*/

```

@Deprecated

```

public static KEY_GENERIC boolean equals(final KEY_GENERIC_TYPE[] a1, final KEY_GENERIC_TYPE
a2[]) {
 int i = a1.length;
 if (i != a2.length) return false;
 while(i-- != 0) if (! KEY_EQUALS(a1[i], a2[i])) return false;
 return true;
}

```

```

/** Ensures that a range given by its first (inclusive) and last (exclusive) elements fits an array.

```

```

*
* <P>This method may be used whenever an array range check is needed.
*
* @param a an array.
* @param from a start index (inclusive).
* @param to an end index (exclusive).
* @throws IllegalArgumentException if <code>from</code> is greater than <code>to</code>.
* @throws ArrayIndexOutOfBoundsException if <code>from</code> or <code>to</code> are greater than the
array length or negative.

```

```

*/
public static KEY_GENERIC void ensureFromTo(final KEY_GENERIC_TYPE[]
a, final int from, final int to) {
 Arrays.ensureFromTo(a.length, from, to);
}

/** Ensures that a range given by an offset and a length fits an array.
*
* <P>This method may be used whenever an array range check is needed.
*
* @param a an array.
* @param offset a start index.
* @param length a length (the number of elements in the range).
* @throws IllegalArgumentException if <code>length</code> is negative.
* @throws ArrayIndexOutOfBoundsException if <code>offset</code> is negative or
<code>offset</code>+<code>length</code> is greater than the array length.
*/
public static KEY_GENERIC void ensureOffsetLength(final KEY_GENERIC_TYPE[] a, final int offset, final int
length) {
 Arrays.ensureOffsetLength(a.length, offset, length);
}

/** Ensures that two arrays are of the same length.
*
* @param a an array.
* @param b another array.
* @throws IllegalArgumentException if the two argument arrays are not of the same length.
*/
public
static KEY_GENERIC void ensureSameLength(final KEY_GENERIC_TYPE[] a, final KEY_GENERIC_TYPE[]
b) {
 if (a.length != b.length) throw new IllegalArgumentException("Array size mismatch: " + a.length + " != " +
b.length);
}

private static final int QUICKSORT_NO_REC = 16;
private static final int PARALLEL_QUICKSORT_NO_FORK = 8192;
private static final int QUICKSORT_MEDIAN_OF_9 = 128;
private static final int MERGESORT_NO_REC = 16;

/** Swaps two elements of an anrray.
*
* @param x an array.
* @param a a position in { @code x }.
* @param b another position in { @code x }.
*/
public static KEY_GENERIC void swap(final KEY_GENERIC_TYPE x[], final int a, final int b) {
 final KEY_GENERIC_TYPE t = x[a];

```

```

x[a] = x[b];
x[b] = t;
}

/** Swaps two sequences of elements of an array.
 *
 * @param x an array.
 * @param a a position in { @code x }.
 * @param b another position in { @code x }.
 * @param n the number of elements to exchange starting at { @code a } and
 * { @code b }.
 */
public static KEY_GENERIC void swap(final KEY_GENERIC_TYPE[] x, int a, int b, final int n) {
 for(int i = 0; i < n; i++, a++, b++) swap(x, a, b);
}

private static KEY_GENERIC int med3(final KEY_GENERIC_TYPE x[], final int a, final int b, final int c,
KEY_COMPARATOR KEY_GENERIC comp) {
 final int ab = comp.compare(x[a], x[b]);
 final int ac = comp.compare(x[a], x[c]);
 final int bc = comp.compare(x[b], x[c]);
 return (ab < 0 ?
 (bc < 0 ? b : ac < 0 ? c : a) :
 (bc > 0 ? b : ac > 0 ? c : a));
}

private static KEY_GENERIC void selectionSort(final KEY_GENERIC_TYPE[] a, final int from, final int to, final
KEY_COMPARATOR KEY_GENERIC comp) {
 for(int i = from; i < to - 1; i++) {
 int m = i;
 for(int j = i + 1; j < to; j++) if (comp.compare(a[j], a[m]) < 0) m = j;
 if (m != i) {
 final KEY_GENERIC_TYPE u = a[i];
 a[i] = a[m];
 a[m] = u;
 }
 }
}

private static KEY_GENERIC void insertionSort(
final KEY_GENERIC_TYPE[] a, final int from, final int to, final KEY_COMPARATOR KEY_GENERIC comp)
{
 for (int i = from; ++i < to;) {
 KEY_GENERIC_TYPE t = a[i];
 int j = i;
 for (KEY_GENERIC_TYPE u = a[j - 1]; comp.compare(t, u) < 0; u = a[--j - 1]) {
 a[j] = u;
 if (from == j - 1) {

```

```

--j;
break;
}
}
a[j] = t;
}
}

/** Sorts the specified range of elements according to the order induced by the specified
 * comparator using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * <p>Note that this implementation does not allocate any object, contrarily to the implementation
 * used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.
 *
 * @param x the array to be sorted.
 *
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 * @param comp the comparator to determine the sorting order.
 *
 */
public static <KEY_GENERIC> void quickSort(final <KEY_GENERIC_TYPE>[] x, final int from, final int to, final
<KEY_COMPARATOR<KEY_GENERIC> comp) {
 final int len = to - from;
 // Selection sort on smallest arrays
 if (len < QUICKSORT_NO_REC) {
 selectionSort(x, from, to, comp);
 return;
 }

 // Choose a partition element, v
 int m = from + len / 2;
 int l = from;
 int n = to - 1;
 if (len > QUICKSORT_MEDIAN_OF_9) { // Big arrays, pseudomedian of 9
 int s = len / 8;
 l = med3(x, l, l + s, l + 2 * s, comp);
 m = med3(x, m - s, m, m + s, comp);
 n = med3(x, n - 2 * s, n - s, n, comp);
 }
 m = med3(x, l, m, n, comp); // Mid-size, med of 3

```



```

final KEY_GENERIC_TYPE v = x[m];

// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c =
to - 1, d = c;
while(true) {
 int comparison;
 while (b <= c && (comparison = comp.compare(x[b], v) <= 0) {
 if (comparison == 0) swap(x, a++, b);
 b++;
 }
 while (c >= b && (comparison = comp.compare(x[c], v) >= 0) {
 if (comparison == 0) swap(x, c, d--);
 c--;
 }
 if (b > c) break;
 swap(x, b++, c--);
}

// Swap partition elements back to middle
int s;
s = Math.min(a - from, b - a);
swap(x, from, b - s, s);
s = Math.min(d - c, to - d - 1);
swap(x, b, to - s, s);

// Recursively sort non-partition-elements
if ((s = b - a) > 1) quickSort(x, from, from + s, comp);
if ((s = d - c) > 1) quickSort(x, to - s, to, comp);
}

/** Sorts an array according to the order induced by the specified
 * comparator using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice
 * and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * <p>Note that this implementation does not allocate any object, contrarily to the implementation
 * used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.
 *
 * @param x the array to be sorted.
 * @param comp the comparator to determine the sorting order.
 *
 */
public static KEY_GENERIC void quickSort(final KEY_GENERIC_TYPE[] x, final KEY_COMPARATOR
KEY_GENERIC comp) {

```

```

quickSort(x, 0, x.length, comp);
}

```

```

protected static class ForkJoinQuickSortComp KEY_GENERIC extends RecursiveAction {
 private static final long serialVersionUID = 1L;
 private final int from;
 private final int to;
 private final KEY_GENERIC_TYPE[] x;
 private final KEY_COMPARATOR KEY_GENERIC comp;

 public ForkJoinQuickSortComp(final KEY_GENERIC_TYPE[] x , final int from , final int to, final
KEY_COMPARATOR KEY_GENERIC comp) {
 this.from = from;
 this.to = to;
 this.x
= x;
 this.comp = comp;
 }

```

```

@Override
protected void compute() {
 final KEY_GENERIC_TYPE[] x = this.x;
 final int len = to - from;
 if (len < PARALLEL_QUICKSORT_NO_FORK) {
 quickSort(x, from, to, comp);
 return;
 }
 // Choose a partition element, v
 int m = from + len / 2;
 int l = from;
 int n = to - 1;
 int s = len / 8;
 l = med3(x, l, l + s, l + 2 * s);
 m = med3(x, m - s, m, m + s);
 n = med3(x, n - 2 * s, n - s, n);
 m = med3(x, l, m, n);
 final KEY_GENERIC_TYPE v = x[m];
 // Establish Invariant: v* (<v)* (>v)* v*
 int a = from, b = a, c = to - 1, d = c;
 while (true) {
 int comparison;
 while (b <= c && (comparison = comp.compare(x[b], v)) <= 0) {
 if (comparison == 0) swap(x, a++, b);
 b++;
 }
 while (c >= b && (comparison = comp.compare(x[c], v)) >= 0) {
 if (comparison == 0) swap(x, c, d--);

```

```

 c--;
 }
 if (b > c) break;
 swap(x, b++, c--);
}
//
Swap partition elements back to middle
int t;
s = Math.min(a - from, b - a);
swap(x, from, b - s, s);
s = Math.min(d - c, to - d - 1);
swap(x, b, to - s, s);
// Recursively sort non-partition-elements
s = b - a;
t = d - c;
if (s > 1 && t > 1) invokeAll(new ForkJoinQuickSortComp KEY_GENERIC(x, from, from + s, comp), new
ForkJoinQuickSortComp KEY_GENERIC(x, to - t, to, comp));
else if (s > 1) invokeAll(new ForkJoinQuickSortComp KEY_GENERIC(x, from, from + s, comp));
else invokeAll(new ForkJoinQuickSortComp KEY_GENERIC(x, to - t, to, comp));
}
}

/** Sorts the specified range of elements according to the order induced by the specified
 * comparator using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 *
 * <p>This implementation uses a { @link ForkJoinPool } executor service with
 * { @link Runtime#availableProcessors() } parallel threads.
 *
 * @param x the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 * @param comp the comparator to determine the sorting order.
 */
public static KEY_GENERIC void parallelQuickSort(final KEY_GENERIC_TYPE[] x, final int from, final int to,
final KEY_COMPARATOR KEY_GENERIC comp) {
 if (to - from < PARALLEL_QUICKSORT_NO_FORK) quickSort(x, from, to, comp);
 else {
 final ForkJoinPool pool = new ForkJoinPool(Runtime.getRuntime().availableProcessors());
 pool.invoke(new ForkJoinQuickSortComp KEY_GENERIC(x, from, to, comp));
 pool.shutdown();
 }
}
}

```

```

/** Sorts an array according to the order induced by the specified
 * comparator using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted
from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * <p>This implementation uses a { @link ForkJoinPool } executor service with
 * { @link Runtime#availableProcessors() } parallel threads.
 *
 * @param x the array to be sorted.
 * @param comp the comparator to determine the sorting order.
 */
public static KEY_GENERIC void parallelQuickSort(final KEY_GENERIC_TYPE[] x, final
KEY_COMPARATOR KEY_GENERIC comp) {
 parallelQuickSort(x, 0, x.length, comp);
}

```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

private static KEY_GENERIC int med3(final KEY_GENERIC_TYPE x[], final int a, final int b, final int c) {
 final int ab = KEY_CMP(x[a], x[b]);
 final int ac = KEY_CMP(x[a], x[c]);
 final int bc = KEY_CMP(x[b], x[c]);
 return (ab < 0 ?
 (bc < 0 ? b : ac < 0 ? c : a) :
 (bc > 0 ? b : ac > 0 ? c : a));
}

```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

private
static KEY_GENERIC void selectionSort(final KEY_GENERIC_TYPE[] a, final int from, final int to) {
 for(int i = from; i < to - 1; i++) {
 int m = i;
 for(int j = i + 1; j < to; j++) if (KEY_LESS(a[j], a[m])) m = j;
 if (m != i) {
 final KEY_GENERIC_TYPE u = a[i];
 a[i] = a[m];
 a[m] = u;
 }
 }
}

```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

private static KEY_GENERIC void insertionSort(final KEY_GENERIC_TYPE[] a, final int from, final int to) {
 for (int i = from; ++i < to;) {
 KEY_GENERIC_TYPE t = a[i];

```

```

int j = i;
for (KEY_GENERIC_TYPE u = a[j - 1]; KEY_LESS(t, u); u = a[--j - 1]) {
 a[j] = u;
 if (from == j - 1) {
 --j;
 break;
 }
}
a[j] = t;
}
}

/** Sorts the specified range of elements according to the natural ascending order using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”,
 * <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * <p>Note that this implementation does not allocate any object, contrarily to the implementation
 * used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.
 *
 * @param x the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */

```

#### SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

public static KEY_GENERIC void quickSort(final KEY_GENERIC_TYPE[] x, final int from, final int to) {
 final int len = to - from;
 // Selection sort on smallest arrays
 if (len < QUICKSORT_NO_REC) {
 selectionSort(x, from, to);
 return;
 }

 // Choose a partition element, v
 int m = from + len / 2;
 int l = from;
 int n = to - 1;
 if (len > QUICKSORT_MEDIAN_OF_9) { // Big arrays, pseudomedian of 9
 int s = len / 8;
 l = med3(x, l, l + s,
 l + 2 * s);
 m = med3(x, m - s, m, m + s);
 n = med3(x, n - 2 * s, n - s, n);
 }
 m = med3(x, l, m, n); // Mid-size, med of 3

```

```

final KEY_GENERIC_TYPE v = x[m];

// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c = to - 1, d = c;
while(true) {
 int comparison;
 while (b <= c && (comparison = KEY_CMP(x[b], v) <= 0) {
 if (comparison == 0) swap(x, a++, b);
 b++;
 }
 while (c >= b && (comparison = KEY_CMP(x[c], v) >= 0) {
 if (comparison == 0) swap(x, c, d--);
 c--;
 }
 if (b > c) break;
 swap(x, b++, c--);
}

// Swap partition elements back to middle
int s;
s = Math.min(a - from, b - a);
swap(x, from, b - s, s);
s = Math.min(d - c, to - d - 1);
swap(x, b, to - s, s);

// Recursively sort non-partition-elements
if ((s = b - a) > 1) quickSort(x, from, from + s);
if ((s = d - c) > 1) quickSort(x, to - s, to);
}

/** Sorts an array according to the natural ascending
order using quicksort.
*
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249−1265, 1993.
*
* <p>Note that this implementation does not allocate any object, contrarily to the implementation
* used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.
*
* @param x the array to be sorted.
*
*/
public static KEY_GENERIC void quickSort(final KEY_GENERIC_TYPE[] x) {
 quickSort(x, 0, x.length);
}

```

```

protected static class ForkJoinQuickSort KEY_GENERIC extends RecursiveAction {
 private static final long serialVersionUID = 1L;
 private final int from;
 private final int to;
 private final KEY_GENERIC_TYPE[] x;

 public ForkJoinQuickSort(final KEY_GENERIC_TYPE[] x , final int from , final int to) {
 this.from = from;
 this.to = to;
 this.x
 = x;
 }

 @Override
 SUPPRESS_WARNINGS_KEY_UNCHECKED
 protected void compute() {
 final KEY_GENERIC_TYPE[] x = this.x;
 final int len = to - from;
 if (len < PARALLEL_QUICKSORT_NO_FORK) {
 quickSort(x, from, to);
 return;
 }
 // Choose a partition element, v
 int m = from + len / 2;
 int l = from;
 int n = to - 1;
 int s = len / 8;
 l = med3(x, l, l + s, l + 2 * s);
 m = med3(x, m - s, m, m + s);
 n = med3(x, n - 2 * s, n - s, n);
 m = med3(x, l, m, n);
 final KEY_GENERIC_TYPE v = x[m];
 // Establish Invariant: v* (<v)* (>v)* v*
 int a = from, b = a, c = to - 1, d = c;
 while (true) {
 int comparison;
 while (b <= c && (comparison = KEY_CMP(x[b], v)) <= 0) {
 if (comparison == 0) swap(x, a++, b);
 b++;
 }
 while (c >= b && (comparison = KEY_CMP(x[c], v)) >= 0) {
 if (comparison == 0) swap(x, c, d--);
 c--;
 }
 if (b > c) break;
 swap(x, b++, c--);
 }
 // Swap

```

```

partition elements back to middle
int t;
s = Math.min(a - from, b - a);
swap(x, from, b - s, s);
s = Math.min(d - c, to - d - 1);
swap(x, b, to - s, s);
// Recursively sort non-partition-elements
s = b - a;
t = d - c;
if (s > 1 && t > 1) invokeAll(new ForkJoinQuickSort KEY_GENERIC(x, from, from + s), new
ForkJoinQuickSort KEY_GENERIC(x, to - t, to));
else if (s > 1) invokeAll(new ForkJoinQuickSort KEY_GENERIC(x, from, from + s));
else invokeAll(new ForkJoinQuickSort KEY_GENERIC(x, to - t, to));
}
}

/** Sorts the specified range of elements according to the natural ascending order using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * <p>This implementation uses a { @link ForkJoinPool } executor service
with
 * { @link Runtime#availableProcessors() } parallel threads.
 *
 * @param x the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */
public static KEY_GENERIC void parallelQuickSort(final KEY_GENERIC_TYPE[] x, final int from, final int to)
{
if (to - from < PARALLEL_QUICKSORT_NO_FORK) quickSort(x, from, to);
else {
final ForkJoinPool pool = new ForkJoinPool(Runtime.getRuntime().availableProcessors());
pool.invoke(new ForkJoinQuickSort KEY_GENERIC(x, from, to));
pool.shutdown();
}
}

/** Sorts an array according to the natural ascending order using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * <p>This implementation uses

```



```

a { @link ForkJoinPool } executor service with
* { @link Runtime#availableProcessors() } parallel threads.
*
* @param x the array to be sorted.
*
*/
public static KEY_GENERIC void parallelQuickSort(final KEY_GENERIC_TYPE[] x) {
 parallelQuickSort(x, 0, x.length);
}

```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

private static KEY_GENERIC int med3Indirect(final int perm[], final KEY_GENERIC_TYPE x[], final int a, final
int b, final int c) {
 final KEY_GENERIC_TYPE aa = x[perm[a]];
 final KEY_GENERIC_TYPE bb = x[perm[b]];
 final KEY_GENERIC_TYPE cc = x[perm[c]];
 final int ab = KEY_CMP(aa, bb);
 final int ac = KEY_CMP(aa, cc);
 final int bc = KEY_CMP(bb, cc);
 return (ab < 0 ?
 (bc < 0 ? b : ac < 0 ? c : a) :
 (bc > 0 ? b : ac > 0 ? c : a));
}

```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

private static KEY_GENERIC void insertionSortIndirect(final int[] perm, final KEY_GENERIC_TYPE[] a, final
int from, final int to) {
 for (int i = from; ++i < to;)
 {
 int t = perm[i];
 int j = i;
 for (int u = perm[j - 1]; KEY_LESS(a[t], a[u]); u = perm[--j - 1]) {
 perm[j] = u;
 if (from == j - 1) {
 --j;
 break;
 }
 }
 perm[j] = t;
 }
}

```

/\*\* Sorts the specified range of elements according to the natural ascending order using indirect quicksort.

```

*
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249−1265, 1993.

```

```

*
* <p>This method implement an indirect sort. The elements of <code>perm</code> (which must
* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
* <code>x[perm[i]] ≤ x[perm[i + 1]]</code>.
*
* <p>Note that this implementation does not allocate any object, contrarily to the implementation
* used to sort primitive types in { @link java.util.Arrays },
which switches to mergesort on large inputs.
*
* @param perm a permutation array indexing { @code x }.
* @param x the array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public static KEY_GENERIC void quickSortIndirect(final int[] perm, final KEY_GENERIC_TYPE[] x, final int
from, final int to) {
 final int len = to - from;
 // Selection sort on smallest arrays
 if (len < QUICKSORT_NO_REC) {
 insertionSortIndirect(perm, x, from, to);
 return;
 }

 // Choose a partition element, v
 int m = from + len / 2;
 int l = from;
 int n = to - 1;
 if (len > QUICKSORT_MEDIAN_OF_9) { // Big arrays, pseudomedian of 9
 int s = len / 8;
 l = med3Indirect(perm, x, l, l + s, l + 2 * s);
 m = med3Indirect(perm, x, m - s, m, m + s);
 n = med3Indirect(perm, x, n - 2 * s, n - s, n);
 }
 m = med3Indirect(perm, x,
l, m, n); // Mid-size, med of 3

 final KEY_GENERIC_TYPE v = x[perm[m]];

 // Establish Invariant: v* (<v)* (>v)* v*
 int a = from, b = a, c = to - 1, d = c;
 while(true) {
 int comparison;
 while (b <= c && (comparison = KEY_CMP(x[perm[b]], v)) <= 0) {
 if (comparison == 0) IntArrays.swap(perm, a++, b);
 b++;
 }
 }
}

```

```

while (c >= b && (comparison = KEY_CMP(x[perm[c]], v)) >= 0) {
 if (comparison == 0) IntArrays.swap(perm, c, d--);
 c--;
}
if (b > c) break;
IntArrays.swap(perm, b++, c--);
}

// Swap partition elements back to middle
int s;
s = Math.min(a - from, b - a);
IntArrays.swap(perm, from, b - s, s);
s = Math.min(d - c, to - d - 1);
IntArrays.swap(perm, b, to - s, s);

// Recursively sort non-partition-elements
if ((s = b - a) > 1) quickSortIndirect(perm, x, from, from + s);
if ((s = d - c) > 1) quickSortIndirect(perm, x, to - s, to);
}

/** Sorts an array according to the
natural ascending order using indirect quicksort.
*
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249−1265, 1993.
*
* <p>This method implement an indirect sort. The elements of <code>perm</code> (which must
* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
* <code>x[perm[i]] ≤ x[perm[i + 1]]</code>.
*
* <p>Note that this implementation does not allocate any object, contrarily to the implementation
* used to sort primitive types in { @link java.util.Arrays }, which switches to mergesort on large inputs.
*
* @param perm a permutation array indexing { @code x }.
* @param x the array to be sorted.
*/
public static KEY_GENERIC void quickSortIndirect(final int perm[], final KEY_GENERIC_TYPE[] x) {
 quickSortIndirect(perm, x, 0, x.length
);
}

protected static class ForkJoinQuickSortIndirect KEY_GENERIC extends RecursiveAction {
 private static final long serialVersionUID = 1L;
 private final int from;
 private final int to;
 private final int[] perm;
 private final KEY_GENERIC_TYPE[] x;

```

```

public ForkJoinQuickSortIndirect(final int perm[], final KEY_GENERIC_TYPE[] x , final int from , final int to) {
 this.from = from;
 this.to = to;
 this.x = x;
 this.perm = perm;
}

@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
protected void compute() {
 final KEY_GENERIC_TYPE[] x = this.x;
 final int len = to - from;
 if (len < PARALLEL_QUICKSORT_NO_FORK) {
 quickSortIndirect(perm, x, from, to);
 return;
 }
 // Choose a partition element, v
 int m = from + len / 2;
 int l = from;
 int n = to - 1;
 int s = len / 8;
 l = med3Indirect(perm, x, l, l + s, l + 2 * s);
 m = med3Indirect(perm, x, m - s, m, m + s);
 n = med3Indirect(perm, x, n - 2 * s, n - s, n);
 m =
med3Indirect(perm, x, l, m, n);
 final KEY_GENERIC_TYPE v = x[perm[m]];
 // Establish Invariant: v* (<v)* (>v)* v*
 int a = from, b = a, c = to - 1, d = c;
 while (true) {
 int comparison;
 while (b <= c && (comparison = KEY_CMP(x[perm[b]], v)) <= 0) {
 if (comparison == 0) IntArrays.swap(perm, a++, b);
 b++;
 }
 while (c >= b && (comparison = KEY_CMP(x[perm[c]], v)) >= 0) {
 if (comparison == 0) IntArrays.swap(perm, c, d--);
 c--;
 }
 if (b > c) break;
 IntArrays.swap(perm, b++, c--);
 }
 // Swap partition elements back to middle
 int t;
 s = Math.min(a - from, b - a);
 IntArrays.swap(perm, from, b - s, s);
 s = Math.min(d - c, to - d - 1);
}

```

```

 IntArrays.swap(perm, b, to - s, s);
 // Recursively sort non-partition-elements
 s = b - a;
 t = d - c;
 if (s > 1 && t > 1) invokeAll(new ForkJoinQuickSortIndirect KEY_GENERIC(perm, x, from, from + s), new
ForkJoinQuickSortIndirect
KEY_GENERIC(perm, x, to - t, to));
 else if (s > 1) invokeAll(new ForkJoinQuickSortIndirect KEY_GENERIC(perm, x, from, from + s));
 else invokeAll(new ForkJoinQuickSortIndirect KEY_GENERIC(perm, x, to - t, to));
 }
 }

/** Sorts the specified range of elements according to the natural ascending order using a parallel indirect quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * <p>This method implement an indirect sort. The elements of <code>perm</code> (which must
 * be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
 * <code>x[perm[i]] ≤ x[perm[i + 1]]</code>.
 *
 * <p>This implementation uses a { @link ForkJoinPool} executor service with
 * { @link Runtime#availableProcessors()} parallel threads.
 *
 * @param perm a permutation array indexing { @code x }.
 * @param x the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */
public static KEY_GENERIC void parallelQuickSortIndirect(final int[] perm, final KEY_GENERIC_TYPE[] x,
final int from, final int to) {
 if (to - from < PARALLEL_QUICKSORT_NO_FORK) quickSortIndirect(perm, x, from, to);
 else {
 final ForkJoinPool pool = new ForkJoinPool(Runtime.getRuntime().availableProcessors());
 pool.invoke(new ForkJoinQuickSortIndirect KEY_GENERIC(perm, x, from, to));
 pool.shutdown();
 }
}

/** Sorts an array according to the natural ascending order using a parallel indirect quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *

```

```

* <p>This method implement an indirect sort. The elements of <code>perm</code> (which must
* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
* <code>x[perm[i]] ≤ x[perm[i + 1]]</code>.
*
* <p>This implementation uses a { @link ForkJoinPool } executor service with
* { @link Runtime#availableProcessors() } parallel threads.
*
* @param perm a permutation array indexing { @code x }.
* @param x the array to be sorted.
*
*/
public static KEY_GENERIC void parallelQuickSortIndirect(final int perm[], final KEY_GENERIC_TYPE[] x) {
 parallelQuickSortIndirect(perm, x, 0, x.length);
}

/** Stabilizes a permutation.
*
* <p>This method can be used to stabilize the permutation generated by an indirect sorting, assuming that
* initially the permutation array was in ascending order (e.g., the identity, as usually happens). This method
* scans the permutation, and for each non-singleton
block of elements with the same associated values in { @code x },
* permutes them in ascending order. The resulting permutation corresponds to a stable sort.
*
* <p>Usually combining an unstable indirect sort and this method is more efficient than using a stable sort,
* as most stable sort algorithms require a support array.
*
* <p>More precisely, assuming that <code>x[perm[i]] ≤ x[perm[i + 1]]</code>, after
* stabilization we will also have that <code>x[perm[i]] = x[perm[i + 1]]</code> implies
* <code>perm[i] ≤ perm[i + 1]</code>.
*
* @param perm a permutation array indexing { @code x } so that it is sorted.
* @param x the sorted array to be stabilized.
* @param from the index of the first element (inclusive) to be stabilized.
* @param to the index of the last element (exclusive) to be stabilized.
*/
public static KEY_GENERIC void stabilize(final int perm[], final KEY_GENERIC_TYPE[] x, final int from, final
int to) {
 int
 curr = from;
 for(int i = from + 1; i < to; i++) {
 if (x[perm[i]] != x[perm[curr]]) {
 if (i - curr > 1) IntArrays.parallelQuickSort(perm, curr, i);
 curr = i;
 }
 }
 if (to - curr > 1) IntArrays.parallelQuickSort(perm, curr, to);
}

```

```

/** Stabilizes a permutation.
 *
 * <p>This method can be used to stabilize the permutation generated by an indirect sorting, assuming that
 * initially the permutation array was in ascending order (e.g., the identity, as usually happens). This method
 * scans the permutation, and for each non-singleton block of elements with the same associated values in { @code
 * x },
 * permutes them in ascending order. The resulting permutation corresponds to a stable sort.
 *
 * <p>Usually combining an unstable indirect sort and this method is more efficient than using a stable sort,
 * as most stable sort algorithms require a support array.
 *
 * <p>More precisely, assuming that <code>x[perm[i]] ≤ x[perm[i +
 * 1]]</code>, after
 * stabilization we will also have that <code>x[perm[i]] = x[perm[i + 1]]</code> implies
 * <code>perm[i] ≤ perm[i + 1]</code>.
 *
 * @param perm a permutation array indexing { @code x } so that it is sorted.
 * @param x the sorted array to be stabilized.
 */
public static KEY_GENERIC void stabilize(final int perm[], final KEY_GENERIC_TYPE[] x) {
 stabilize(perm, x, 0, perm.length);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private static KEY_GENERIC int med3(final KEY_GENERIC_TYPE x[], final KEY_GENERIC_TYPE[] y, final
int a, final int b, final int c) {
 int t;
 final int ab = (t = KEY_CMP(x[a], x[b])) == 0 ? KEY_CMP(y[a], y[b]) : t;
 final int ac = (t = KEY_CMP(x[a], x[c])) == 0 ? KEY_CMP(y[a], y[c]) : t;
 final int bc = (t = KEY_CMP(x[b], x[c])) == 0 ? KEY_CMP(y[b], y[c]) : t;
 return (ab < 0 ?
 (bc < 0 ? b : ac < 0 ? c : a) :
 (bc > 0 ? b : ac > 0 ? c : a));
}

private static KEY_GENERIC
void swap(final KEY_GENERIC_TYPE x[], final KEY_GENERIC_TYPE[] y, final int a, final int b) {
 final KEY_GENERIC_TYPE t = x[a];
 final KEY_GENERIC_TYPE u = y[a];
 x[a] = x[b];
 y[a] = y[b];
 x[b] = t;
 y[b] = u;
}

private static KEY_GENERIC void swap(final KEY_GENERIC_TYPE[] x, final KEY_GENERIC_TYPE[] y, int
a, int b, final int n) {
 for (int i = 0; i < n; i++, a++, b++) swap(x, y, a, b);
}

```

```
}
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
private static KEY_GENERIC void selectionSort(final KEY_GENERIC_TYPE[] a, final
KEY_GENERIC_TYPE[] b, final int from, final int to) {
 for(int i = from; i < to - 1; i++) {
 int m = i, u;
 for(int j = i + 1; j < to; j++)
 if ((u = KEY_CMP(a[j], a[m])) < 0 || u == 0 && KEY_LESS(b[j], b[m])) m = j;

 if (m != i) {
 KEY_GENERIC_TYPE t = a[i];
 a[i] = a[m];
 a[m] = t;
 t = b[i];
 b[i] = b[m];
 b[m] = t;
 }
 }
}
```

```
/** Sorts the specified range of elements
```

```
of two arrays according to the natural lexicographical
```

```
* ascending order using quicksort.
```

```
*
```

```
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
```

```
* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249−1265, 1993.
```

```
*
```

```
* <p>This method implements a lexicographical sorting of the arguments. Pairs of
```

```
* elements in the same position in the two provided arrays will be considered a single key, and
```

```
* permuted accordingly. In the end, either <code>x[i] < x[i + 1]</code> or <code>x[i]
```

```
* == x[i + 1]</code> and <code>y[i] ≤ y[i + 1]</code>.
```

```
*
```

```
* @param x the first array to be sorted.
```

```
* @param y the second array to be sorted.
```

```
* @param from the index of the first element (inclusive) to be sorted.
```

```
* @param to the index of the last element (exclusive) to be sorted.
```

```
*/
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
public static KEY_GENERIC void
```

```
quickSort(final KEY_GENERIC_TYPE[] x, final KEY_GENERIC_TYPE[] y, final int from, final int to) {
```

```
 final int len = to - from;
```

```
 if (len < QUICKSORT_NO_REC) {
```

```
 selectionSort(x, y, from, to);
```

```
 return;
```

```
 }
```



```

// Choose a partition element, v
int m = from + len / 2;
int l = from;
int n = to - 1;
if (len > QUICKSORT_MEDIAN_OF_9) { // Big arrays, pseudomedian of 9
 int s = len / 8;
 l = med3(x, y, l, l + s, l + 2 * s);
 m = med3(x, y, m - s, m, m + s);
 n = med3(x, y, n - 2 * s, n - s, n);
}
m = med3(x, y, l, m, n); // Mid-size, med of 3
final KEY_GENERIC_TYPE v = x[m], w = y[m];
// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c = to - 1, d = c;
while (true) {
 int comparison, t;
 while (b <= c && (comparison = (t = KEY_CMP(x[b], v)) == 0 ? KEY_CMP(y[b], w) : t) <= 0) {
 if (comparison == 0) swap(x, y, a++, b);
 b++;
 }
 while (c >= b && (comparison = (t = KEY_CMP(x[c], v)) == 0 ? KEY_CMP(
y[c], w) : t) >= 0) {
 if (comparison == 0) swap(x, y, c, d--);
 c--;
 }
 if (b > c) break;
 swap(x, y, b++, c--);
}
// Swap partition elements back to middle
int s;
s = Math.min(a - from, b - a);
swap(x, y, from, b - s, s);
s = Math.min(d - c, to - d - 1);
swap(x, y, b, to - s, s);
// Recursively sort non-partition-elements
if ((s = b - a) > 1) quickSort(x, y, from, from + s);
if ((s = d - c) > 1) quickSort(x, y, to - s, to);
}

/** Sorts two arrays according to the natural lexicographical ascending order using quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265, 1993.
 *
 * <p>This method implements a lexicographical sorting of the arguments. Pairs of
 * elements in the same position in the two provided arrays will

```

be considered a single key, and

\* permuted accordingly. In the end, either `x[ i ] &lt; x[ i + 1 ]` or `x[ i ]`

\* `== x[ i + 1 ]` and `y[ i ] &lt; y[ i + 1 ]`.

\*

\* @param x the first array to be sorted.

\* @param y the second array to be sorted.

\*/

```
public static KEY_GENERIC void quickSort(final KEY_GENERIC_TYPE[] x, final KEY_GENERIC_TYPE[] y)
{
 ensureSameLength(x, y);
 quickSort(x, y, 0, x.length);
}
```

```
protected static class ForkJoinQuickSort2 KEY_GENERIC extends RecursiveAction {
 private static final long serialVersionUID = 1L;
 private final int from;
 private final int to;
 private final KEY_GENERIC_TYPE[] x, y;
```

```
 public ForkJoinQuickSort2(final KEY_GENERIC_TYPE[] x, final KEY_GENERIC_TYPE[] y, final int from ,
final int to) {
 this.from = from;
 this.to = to;
 this.x = x;
 this.y = y;
 }
```

@Override

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```
protected void compute() {
```

```
 final KEY_GENERIC_TYPE[] x = this.x;
```

```
 final
```

```
KEY_GENERIC_TYPE[] y = this.y;
```

```
 final int len = to - from;
```

```
 if (len < PARALLEL_QUICKSORT_NO_FORK) {
```

```
 quickSort(x, y, from, to);
```

```
 return;
```

```
 }
```

```
 // Choose a partition element, v
```

```
 int m = from + len / 2;
```

```
 int l = from;
```

```
 int n = to - 1;
```

```
 int s = len / 8;
```

```
 l = med3(x, y, l, l + s, l + 2 * s);
```

```
 m = med3(x, y, m - s, m, m + s);
```

```
 n = med3(x, y, n - 2 * s, n - s, n);
```

```
 m = med3(x, y, l, m, n);
```

```
 final KEY_GENERIC_TYPE v = x[m], w = y[m];
```

```

// Establish Invariant: v* (<v)* (>v)* v*
int a = from, b = a, c = to - 1, d = c;
while (true) {
 int comparison, t;
 while (b <= c && (comparison = (t = KEY_CMP(x[b], v)) == 0 ? KEY_CMP(y[b], w) : t) <= 0) {
 if (comparison == 0) swap(x, y, a++, b);
 b++;
 }
 while (c >= b && (comparison = (t = KEY_CMP(x[c], v)) == 0 ? KEY_CMP(y[c], w) : t) >= 0) {
 if (comparison == 0) swap(x, y, c, d--);
 c--;
 }
 if (b > c) break;
 swap(x,
y, b++, c--);
}
// Swap partition elements back to middle
int t;
s = Math.min(a - from, b - a);
swap(x, y, from, b - s, s);
s = Math.min(d - c, to - d - 1);
swap(x, y, b, to - s, s);
s = b - a;
t = d - c;
// Recursively sort non-partition-elements
if (s > 1 && t > 1) invokeAll(new ForkJoinQuickSort2 KEY_GENERIC(x, y, from, from + s), new
ForkJoinQuickSort2 KEY_GENERIC(x, y, to - t, to));
else if (s > 1) invokeAll(new ForkJoinQuickSort2 KEY_GENERIC(x, y, from, from + s));
else invokeAll(new ForkJoinQuickSort2 KEY_GENERIC(x, y, to - t, to));
}
}

/** Sorts the specified range of elements of two arrays according to the natural lexicographical
 * ascending order using a parallel quicksort.
 *
 * <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
 * McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
 * 1249−1265,
 * 1993.
 *
 * <p>This method implements a lexicographical sorting of the arguments. Pairs of
 * elements in the same position in the two provided arrays will be considered a single key, and
 * permuted accordingly. In the end, either <code>x[i] < x[i + 1]</code> or <code>x[i]
 * == x[i + 1]</code> and <code>y[i] ≤ y[i + 1]</code>.
 *
 * <p>This implementation uses a { @link ForkJoinPool } executor service with
 * { @link Runtime#availableProcessors() } parallel threads.
 *

```

```

* @param x the first array to be sorted.
* @param y the second array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
*/
public static KEY_GENERIC void parallelQuickSort(final KEY_GENERIC_TYPE[] x, final
KEY_GENERIC_TYPE[] y, final int from, final int to) {
 if (to - from < PARALLEL_QUICKSORT_NO_FORK) quickSort(x, y, from, to);
 final ForkJoinPool pool = new ForkJoinPool(
Runtime.getRuntime().availableProcessors());
 pool.invoke(new ForkJoinQuickSort2 KEY_GENERIC(x, y, from, to));
 pool.shutdown();
}

/** Sorts two arrays according to the natural lexicographical
* ascending order using a parallel quicksort.
*
* <p>The sorting algorithm is a tuned quicksort adapted from Jon L. Bentley and M. Douglas
* McIlroy, “Engineering a Sort Function”, <i>Software: Practice and Experience</i>, 23(11), pages
* 1249−1265, 1993.
*
* <p>This method implements a lexicographical sorting of the arguments. Pairs of
* elements in the same position in the two provided arrays will be considered a single key, and
* permuted accordingly. In the end, either <code>x[i] < x[i + 1]</code> or <code>x[i]
* == x[i + 1]</code> and <code>y[i] ≤ y[i + 1]</code>.
*
* <p>This implementation uses a { @link ForkJoinPool } executor service with
* { @link Runtime#availableProcessors() } parallel threads.
*
* @param x the first array to be sorted.
* @param y the second array to be sorted.
*/
public static KEY_GENERIC void parallelQuickSort(final KEY_GENERIC_TYPE[] x, final
KEY_GENERIC_TYPE[] y) {
 ensureSameLength(x, y);
 parallelQuickSort(x, y, 0, x.length);
}

/** Sorts the specified range of elements according to the natural ascending order using mergesort, using a given
pre-filled support array.
*
* <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
* of the sort. Moreover, no support arrays will be allocated.
*
* @param a the array to be sorted.

```

```

* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
* @param supp a support array containing at least <code>to</code> elements, and whose entries are identical to
those
* of { @code a } in the specified range.
*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public static KEY_GENERIC

```

```

void mergeSort(final KEY_GENERIC_TYPE a[], final int from, final int to, final KEY_GENERIC_TYPE supp[])

```

```

{

```

```

 int len = to - from;

```

```

 // Insertion sort on smallest arrays

```

```

 if (len < MERGESORT_NO_REC) {

```

```

 insertionSort(a, from, to);

```

```

 return;

```

```

 }

```

```

 // Recursively sort halves of a into supp

```

```

 final int mid = (from + to) >>> 1;

```

```

 mergeSort(supp, from, mid, a);

```

```

 mergeSort(supp, mid, to, a);

```

```

 // If list is already sorted, just copy from supp to a. This is an

```

```

 // optimization that results in faster sorts for nearly ordered lists.

```

```

 if (KEY_LESSEQ(supp[mid - 1], supp[mid])) {

```

```

 System.arraycopy(supp, from, a, from, len);

```

```

 return;

```

```

 }

```

```

 // Merge sorted halves (now in supp) into a

```

```

 for(int i = from, p = from, q = mid; i < to; i++) {

```

```

 if (q >= to || p < mid && KEY_LESSEQ(supp[p], supp[q])) a[i] = supp[p++];

```

```

 else a[i] = supp[q++];

```

```

 }

```

```

}

```

```

/** Sorts the specified range of elements according to the natural ascending order using mergesort.

```

```

*

```

```

* <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result

```

```

* of the sort. An array as large as <code>a</code> will be allocated by this method.

```

```

* @param a the array to be sorted.

```

```

* @param from the index of the first element (inclusive) to be sorted.

```

```

* @param to the index of the last element (exclusive) to be sorted.

```

```

*/

```

```

public static KEY_GENERIC void mergeSort(final KEY_GENERIC_TYPE a[], final int from, final int to) {
 mergeSort(a, from, to, a.clone());
}

/** Sorts an array according to the natural ascending order using mergesort.
 *
 * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
 * of the sort. An array as large as <code>a</code> will be allocated by this method.
 *
 * @param a the array to be sorted.
 */
public static KEY_GENERIC void mergeSort(final KEY_GENERIC_TYPE a[]) {
 mergeSort(a, 0, a.length);
}

/** Sorts the specified range of elements
 according to the order induced by the specified
 * comparator using mergesort, using a given pre-filled support array.
 *
 * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
 * of the sort. Moreover, no support arrays will be allocated.
 *
 * @param a the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 * @param comp the comparator to determine the sorting order.
 * @param supp a support array containing at least <code>to</code> elements, and whose entries are identical to
 those
 * of { @code a } in the specified range.
 */
public static KEY_GENERIC void mergeSort(final KEY_GENERIC_TYPE a[], final int from, final int to,
KEY_COMPARATOR KEY_GENERIC comp, final KEY_GENERIC_TYPE supp[]) {
 int len = to - from;

 // Insertion sort on smallest arrays
 if (len < MERGESORT_NO_REC) {
 insertionSort(a, from, to,
comp);
 return;
 }

 // Recursively sort halves of a into supp
 final int mid = (from + to) >>> 1;
 mergeSort(supp, from, mid, comp, a);
 mergeSort(supp, mid, to, comp, a);

 // If list is already sorted, just copy from supp to a. This is an
 // optimization that results in faster sorts for nearly ordered lists.

```

```

if (comp.compare(supp[mid - 1], supp[mid]) <= 0) {
 System.arraycopy(supp, from, a, from, len);
 return;
}

// Merge sorted halves (now in supp) into a
for(int i = from, p = from, q = mid; i < to; i++) {
 if (q >= to || p < mid && comp.compare(supp[p], supp[q]) <= 0) a[i] = supp[p++];
 else a[i] = supp[q++];
}
}

/** Sorts the specified range of elements according to the order induced by the specified
 * comparator using mergesort.
 *
 * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
 * of the sort. An array as large as <code>a</code> will be allocated
by this method.
 *
 * @param a the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 * @param comp the comparator to determine the sorting order.
 */
public static KEY_GENERIC void mergeSort(final KEY_GENERIC_TYPE a[], final int from, final int to,
KEY_COMPARATOR KEY_GENERIC comp) {
 mergeSort(a, from, to, comp, a.clone());
}

/** Sorts an array according to the order induced by the specified
 * comparator using mergesort.
 *
 * <p>This sort is guaranteed to be <i>stable</i>: equal elements will not be reordered as a result
 * of the sort. An array as large as <code>a</code> will be allocated by this method.
 *
 * @param a the array to be sorted.
 * @param comp the comparator to determine the sorting order.
 */
public static KEY_GENERIC void mergeSort(final KEY_GENERIC_TYPE a[], KEY_COMPARATOR
KEY_GENERIC comp) {
 mergeSort(a, 0, a.length, comp);
}

#if
! #keyclass(Boolean)

/**
 * Searches a range of the specified array for the specified value using

```

- \* the binary search algorithm. The range must be sorted prior to making this call.
- \* If it is not sorted, the results are undefined. If the range contains multiple elements with
- \* the specified value, there is no guarantee which one will be found.
- \*
- \* @param a the array to be searched.
- \* @param from the index of the first element (inclusive) to be searched.
- \* @param to the index of the last element (exclusive) to be searched.
- \* @param key the value to be searched for.
- \* @return index of the search key, if it is contained in the array;
- \* otherwise, `-(insertion point - 1)`. The *insertion point* is defined as the the point at which the value would
- \* be inserted into the array: the index of the first
- \* element greater than the key, or the length of the array, if all
- \*
- elements in the array are less than the specified key. Note
- \* that this guarantees that the return value will be  $\geq 0$  if
- \* and only if the key is found.
- \* @see java.util.Arrays
- \*/

#### SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```
public static KEY_GENERIC int binarySearch(final KEY_GENERIC_TYPE[] a, int from, int to, final
KEY_GENERIC_TYPE key) {
 KEY_GENERIC_TYPE midVal;
 to--;
 while (from <= to) {
 final int mid = (from + to) >>> 1;
 midVal = a[mid];
 #if #keys(primitive)
 if (midVal < key) from = mid + 1;
 else if (midVal > key) to = mid - 1;
 else return mid;
 #else
 final int cmp = ((Comparable KEY_SUPER_GENERIC)midVal).compareTo(key);
 if (cmp < 0) from = mid + 1;
 else if (cmp > 0) to = mid - 1;
 else return mid;
 #endif
 }
 return -(from + 1);
}
```

/\*\*

- \* Searches an array for the specified value using
- \* the binary search algorithm. The range must be sorted prior to making this call.
- \* If it is not sorted, the
- results are undefined. If the range contains multiple elements with
- \* the specified value, there is no guarantee which one will be found.
- \*



```

* @param a the array to be searched.
* @param key the value to be searched for.
* @return index of the search key, if it is contained in the array;
* otherwise, <code>-(<i>insertion point</i> - 1)</code>. The <i>insertion
* point</i> is defined as the the point at which the value would
* be inserted into the array: the index of the first
* element greater than the key, or the length of the array, if all
* elements in the array are less than the specified key. Note
* that this guarantees that the return value will be ≥ 0 if
* and only if the key is found.
* @see java.util.Arrays
*/
public static KEY_GENERIC int binarySearch(final KEY_GENERIC_TYPE[] a, final KEY_GENERIC_TYPE
key) {
 return binarySearch(a, 0, a.length, key);
}

/**
* Searches a range of the specified array for the specified value using
* the binary search algorithm and a specified comparator. The range must be sorted following the comparator prior
to making this call.
* If it is not sorted, the results are undefined. If the range contains multiple elements with
* the specified value, there is no guarantee which one will be found.
*
* @param a the array to be searched.
* @param from the index of the first element (inclusive) to be searched.
* @param to the index of the last element (exclusive) to be searched.
* @param key the value to be searched for.
* @param c a comparator.
* @return index of the search key, if it is contained in the array;
* otherwise, <code>-(<i>insertion point</i> - 1)</code>. The <i>insertion
* point</i> is defined as the the point at which the value would
* be inserted into the array: the index of the first
* element greater than
the key, or the length of the array, if all
* elements in the array are less than the specified key. Note
* that this guarantees that the return value will be ≥ 0 if
* and only if the key is found.
* @see java.util.Arrays
*/
public static KEY_GENERIC int binarySearch(final KEY_GENERIC_TYPE[] a, int from, int to, final
KEY_GENERIC_TYPE key, final KEY_COMPARATOR KEY_GENERIC c) {
 KEY_GENERIC_TYPE midVal;
 to--;
 while (from <= to) {
 final int mid = (from + to) >>> 1;
 midVal = a[mid];

```

```

 final int cmp = c.compare(midVal, key);
 if (cmp < 0) from = mid + 1;
 else if (cmp > 0) to = mid - 1;
 else return mid; // key found
}
return -(from + 1);
}

/**
 * Searches an array for the specified value using
 * the binary search algorithm and a specified comparator. The range must be sorted following the comparator prior
 * to making this call.
 * If it is not sorted, the results are undefined. If the range contains
 * multiple elements with
 * the specified value, there is no guarantee which one will be found.
 *
 * @param a the array to be searched.
 * @param key the value to be searched for.
 * @param c a comparator.
 * @return index of the search key, if it is contained in the array;
 * otherwise, <code>-(<i>insertion point</i> - 1)</code>. The <i>insertion
 * point</i> is defined as the the point at which the value would
 * be inserted into the array: the index of the first
 * element greater than the key, or the length of the array, if all
 * elements in the array are less than the specified key. Note
 * that this guarantees that the return value will be ≥ 0 if
 * and only if the key is found.
 * @see java.util.Arrays
 */
public static KEY_GENERIC int binarySearch(final KEY_GENERIC_TYPE[] a, final KEY_GENERIC_TYPE
key, final KEY_COMPARATOR KEY_GENERIC c) {
 return binarySearch(a, 0,
a.length, key, c);
}

```

```

#if #keys(primitive)
/** The size of a digit used during radix sort (must be a power of 2). */
private static final int DIGIT_BITS = 8;
/** The mask to extract a digit of { @link #DIGIT_BITS } bits. */
private static final int DIGIT_MASK = (1 << DIGIT_BITS) - 1;
/** The number of digits per element. */
private static final int DIGITS_PER_ELEMENT = KEY_CLASS.SIZE / DIGIT_BITS;
private static final int RADIXSORT_NO_REC = 1024;
private static final int PARALLEL_RADIXSORT_NO_FORK = 1024;

/** This method fixes negative numbers so that the combination exponent/significand is lexicographically sorted. */
#if #keyclass(Double)

```

```

private static final long fixDouble(final double d) {
 final long l = Double.doubleToLongBits(d);
 return l >= 0 ? l : l ^ 0x7FFFFFFFFFFFFFFFL;
}
#elif #keyclass(Float)
private static final int fixFloat(final float f) {
 final int i = Float.floatToIntBits(f);
 return i >= 0 ? i : i ^ 0x7FFFFFFF;
}
#endif

/** Sorts
the specified array using radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
*
* <p>This implementation is significantly faster than quicksort
* already at small sizes (say, more than 10000 elements), but it can only
* sort in ascending order.
*
* @param a the array to be sorted.
*/
public static void radixSort(final KEY_TYPE[] a) {
 radixSort(a, 0, a.length);
}

/** Sorts the specified range of an array using radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
*
* <p>This implementation is significantly faster than quicksort
* already at small sizes (say, more than 10000 elements), but it can
only
* sort in ascending order.
*
* @param a the array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
*/
public static void radixSort(final KEY_TYPE[] a, final int from, final int to) {
 if (to - from < RADIXSORT_NO_REC) {
 quickSort(a, from, to);
 return;
 }
}

```

```

final int maxLevel = DIGITS_PER_ELEMENT - 1;

final int stackSize = ((1 << DIGIT_BITS) - 1) * (DIGITS_PER_ELEMENT - 1) + 1;
int stackPos = 0;
final int[] offsetStack = new int[stackSize];
final int[] lengthStack = new int[stackSize];
final int[] levelStack = new int[stackSize];

offsetStack[stackPos] = from;
lengthStack[stackPos] = to - from;
levelStack[stackPos++] = 0;

final int[] count = new int[1 << DIGIT_BITS];
final int[] pos = new int[1 << DIGIT_BITS];

while(stackPos > 0) {
 final int first = offsetStack[--stackPos];
 final int length
= lengthStack[stackPos];
 final int level = levelStack[stackPos];
 #if #keyclass(Character)
 final int signMask = 0;
 #else
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 #endif
 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

 // Count keys.
 for(int i = first + length; i-- != first;) count[INT(KEY2LEXINT(a[i]) >>> shift & DIGIT_MASK ^ signMask)
]++;
 // Compute cumulative distribution
 int lastUsed = -1;
 for (int i = 0, p = first; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) lastUsed = i;
 pos[i] = (p += count[i]);
 }

 final int end = first + length - count[lastUsed];
 // i moves through the start of each block
 for(int i = first, c = -1, d; i <= end; i += count[c], count[c] = 0) {
 KEY_TYPE t = a[i];
 c = INT(KEY2LEXINT(t) >>> shift & DIGIT_MASK ^ signMask);

 if
(i < end) { // When all slots are OK, the last slot is necessarily OK.
 while ((d = --pos[c]) > i) {
 final KEY_TYPE z = t;

```

```

 t = a[d];
 a[d] = z;
 c = INT(KEY2LEXINT(t) >>> shift & DIGIT_MASK ^ signMask);
}
a[i] = t;
}

if (level < maxLevel && count[c] > 1) {
 if (count[c] < RADIXSORT_NO_REC) quickSort(a, i, i + count[c]);
 else {
 offsetStack[stackPos] = i;
 lengthStack[stackPos] = count[c];
 levelStack[stackPos++] = level + 1;
 }
}
}
}
}

protected final static class Segment {
 protected final int offset, length, level;
 protected Segment(final int offset, final int length, final int level) {
 this.offset = offset;
 this.length = length;
 this.level = level;
 }

 @Override
 public String toString() {
 return "Segment [offset=" + offset + ", length=" + length + ", level=" + level + "]";
 }
}

protected final static Segment POISON_PILL = new Segment(
-1, -1, -1);

/** Sorts the specified range of an array using parallel radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
 *
 * <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
 *
 * @param a the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 */

```

```

public static void parallelRadixSort(final KEY_TYPE[] a, final int from, final int to) {
 if (to - from < PARALLEL_RADIXSORT_NO_FORK) {
 quickSort(a, from, to);
 return;
 }
 final int maxLevel = DIGITS_PER_ELEMENT - 1;
 final LinkedBlockingQueue<Segment> queue = new LinkedBlockingQueue<Segment>();
 queue.add(new Segment(from, to - from, 0));
 final AtomicInteger queueSize = new
AtomicInteger(1);
 final int numberOfThreads = Runtime.getRuntime().availableProcessors();
 final ExecutorService executorService = Executors.newFixedThreadPool(numberOfThreads,
Executors.defaultThreadFactory());
 final ExecutorCompletionService<Void> executorCompletionService = new ExecutorCompletionService<Void>(
executorService);

 for(int i = numberOfThreads; i-- != 0;) executorCompletionService.submit(new Callable<Void>() {
 public Void call() throws Exception {
 final int[] count = new int[1 << DIGIT_BITS];
 final int[] pos = new int[1 << DIGIT_BITS];

 for(;;) {
 if (queueSize.get() == 0) for(int i = numberOfThreads; i-- != 0;) queue.add(POISON_PILL);
 final Segment segment = queue.take();
 if (segment == POISON_PILL) return null;

 final int first = segment.offset;
 final int length = segment.length;
 final int level = segment.level;

 #if #keyclass(Character)
 final int signMask = 0;
 #else
 final int signMask
= level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 #endif

 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

 // Count keys.
 for(int i = first + length; i-- != first;) count[INT(KEY2LEXINT(a[i]) >>> shift & DIGIT_MASK ^ signMask)
]++;
 // Compute cumulative distribution
 int lastUsed = -1;
 for(int i = 0, p = first; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) lastUsed = i;
 pos[i] = (p += count[i]);
 }
 }
 }
 });
}

```

```

final int end = first + length - count[lastUsed];
// i moves through the start of each block
for(int i = first, c = -1, d; i <= end; i += count[c], count[c] = 0) {
 KEY_TYPE t = a[i];
 c = INT(KEY2LEXINT(t) >>> shift & DIGIT_MASK ^ signMask);
 if (i < end) {
 while((d = --pos[c]) > i) {
 final KEY_TYPE z = t;
 t = a[d];
 a[d] =
z;
 c = INT(KEY2LEXINT(t) >>> shift & DIGIT_MASK ^ signMask);
 }
 a[i] = t;
 }

 if (level < maxLevel && count[c] > 1) {
 if (count[c] < PARALLEL_RADIXSORT_NO_FORK) quickSort(a, i, i + count[c]);
 else {
 queueSize.incrementAndGet();
 queue.add(new Segment(i, count[c], level + 1));
 }
 }
 queueSize.decrementAndGet();
}
});

Throwable problem = null;
for(int i = numberOfThreads; i-- != 0;)
try {
 executorCompletionService.take().get();
}
catch(Exception e) {
 problem = e.getCause(); // We keep only the last one. They will be logged anyway.
}

executorService.shutdown();
if (problem != null) throw (problem instanceof RuntimeException) ? (RuntimeException)problem : new
RuntimeException(problem);
}

/** Sorts the specified array using parallel radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy,

```

Keith Bostic and M. Douglas

\* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).

\*

\* <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.

\*

\* @param a the array to be sorted.

\*/

```
public static void parallelRadixSort(final KEY_TYPE[] a) {
 parallelRadixSort(a, 0, a.length);
}
```

/\*\* Sorts the specified array using indirect radix sort.

\*

\* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas

\* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).

\*

\* <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must

\* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that

\* <code>a[ perm[ i ] ] &le; a[ perm[ i + 1 ] ]</code>.

\*

\* <p>This implementation will allocate, in the stable case, a support array as large as <code>perm</code> (note that the stable version is slightly faster).

\*

\* @param perm a permutation array indexing <code>a</code>.

\* @param a the array to be sorted.

\* @param stable whether the sorting algorithm should be stable.

\*/

```
public static void radixSortIndirect(final int[] perm, final KEY_TYPE[] a, final boolean stable) {
 radixSortIndirect(perm, a, 0, perm.length, stable);
}
```

/\*\* Sorts the specified array using indirect radix sort.

\*

\* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas

\* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).

\*

\* <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must

\* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that

\* <code>a[ perm[ i ] ] &le; a[ perm[ i + 1 ] ]</code>.

\*

\* <p>This implementation will allocate, in the stable case, a support array as large as <code>perm</code> (note that the stable version is slightly faster).

\*

\* @param perm a permutation array indexing <code>a</code>.

\* @param a the array to be sorted.

\* @param from the index of the first element of <code>perm</code> (inclusive) to be permuted.



```

* @param to the index of the last element of <code>perm</code> (exclusive) to be permuted.
* @param stable whether the sorting algorithm should be stable.
*/
public static void radixSortIndirect(final int[] perm, final KEY_TYPE[] a, final int from, final int to, final boolean
stable) {
 if (to - from < RADIXSORT_NO_REC) {
 insertionSortIndirect(perm, a, from, to);
 return;
 }

 final int maxLevel = DIGITS_PER_ELEMENT - 1;

 final int stackSize = ((1 << DIGIT_BITS) - 1) * (DIGITS_PER_ELEMENT - 1) + 1;
 int stackPos = 0;
 final int[] offsetStack = new int[stackSize];
 final int[] lengthStack = new int[stackSize];
 final
int[] levelStack = new int[stackSize];

 offsetStack[stackPos] = from;
 lengthStack[stackPos] = to - from;
 levelStack[stackPos++] = 0;

 final int[] count = new int[1 << DIGIT_BITS];
 final int[] pos = new int[1 << DIGIT_BITS];
 final int[] support = stable ? new int[perm.length] : null;

 while(stackPos > 0) {
 final int first = offsetStack[--stackPos];
 final int length = lengthStack[stackPos];
 final int level = levelStack[stackPos];
 #if #keyclass(Character)
 final int signMask = 0;
 #else
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 #endif

 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

 // Count keys.
 for(int i = first + length; i-- != first;) count[INT(KEY2LEXINT(a[perm[i]]) >>> shift & DIGIT_MASK ^
signMask)]++;
 // Compute cumulative distribution
 int lastUsed = -1;
 for
(int i = 0, p = stable ? 0 : first; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) lastUsed = i;

```

```

pos[i] = (p += count[i]);
}

if (stable) {
for(int i = first + length; i-- != first;) support[--pos[INT(KEY2LEXINT(a[perm[i]]) >>> shift &
DIGIT_MASK ^ signMask)]] = perm[i];
System.arraycopy(support, 0, perm, first, length);
for(int i = 0, p = first; i <= lastUsed; i++) {
if (level < maxLevel && count[i] > 1) {
if (count[i] < RADIXSORT_NO_REC) insertionSortIndirect(perm, a, p, p + count[i]);
else {
offsetStack[stackPos] = p;
lengthStack[stackPos] = count[i];
levelStack[stackPos++] = level + 1;
}
}
p += count[i];
}
java.util.Arrays.fill(count, 0);
}
else {
final int end = first + length - count[lastUsed];
// i moves through the start of each block
for(int i = first, c = -1, d; i <= end; i += count[c], count[c] = 0) {
int
t = perm[i];
c = INT(KEY2LEXINT(a[t]) >>> shift & DIGIT_MASK ^ signMask);

if (i < end) { // When all slots are OK, the last slot is necessarily OK.
while((d = --pos[c]) > i) {
final int z = t;
t = perm[d];
perm[d] = z;
c = INT(KEY2LEXINT(a[t]) >>> shift & DIGIT_MASK ^ signMask);
}
perm[i] = t;
}

if (level < maxLevel && count[c] > 1) {
if (count[c] < RADIXSORT_NO_REC) insertionSortIndirect(perm, a, i, i + count[c]);
else {
offsetStack[stackPos] = i;
lengthStack[stackPos] = count[c];
levelStack[stackPos++] = level + 1;
}
}
}
}
}
}

```

```

}
}

/** Sorts the specified range of an array using parallel indirect radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27
 (1993).
 *
 * <p>This method implement an indirect sort. The elements of <code>perm</code> (which must
 * be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
 * <code>a[perm[i]] ≤ a[perm[i + 1]]</code>.
 *
 * <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
 *
 * @param perm a permutation array indexing <code>a</code>.
 * @param a the array to be sorted.
 * @param from the index of the first element (inclusive) to be sorted.
 * @param to the index of the last element (exclusive) to be sorted.
 * @param stable whether the sorting algorithm should be stable.
 */
public static void parallelRadixSortIndirect(final int perm[], final KEY_TYPE[] a, final int from, final int to, final
boolean stable) {
 if (to - from < PARALLEL_RADIXSORT_NO_FORK) {
 radixSortIndirect(perm, a, from, to, stable);
 return;
 }
 final int maxLevel = DIGITS_PER_ELEMENT - 1;
 final
 LinkedBlockingQueue<Segment> queue = new LinkedBlockingQueue<Segment>();
 queue.add(new Segment(from, to - from, 0));
 final AtomicInteger queueSize = new AtomicInteger(1);
 final int numberOfThreads = Runtime.getRuntime().availableProcessors();
 final ExecutorService executorService = Executors.newFixedThreadPool(numberOfThreads,
 Executors.defaultThreadFactory());
 final ExecutorCompletionService<Void> executorCompletionService = new ExecutorCompletionService<Void>(
 executorService);
 final int[] support = stable ? new int[perm.length] : null;

 for(int i = numberOfThreads; i-- != 0;) executorCompletionService.submit(new Callable<Void>() {
 public Void call() throws Exception {
 final int[] count = new int[1 << DIGIT_BITS];
 final int[] pos = new int[1 << DIGIT_BITS];

 for(;;) {
 if (queueSize.get() == 0) for(int i = numberOfThreads; i-- != 0;) queue.add(POISON_PILL);
 final Segment segment = queue.take();
 if (segment == POISON_PILL

```

```

) return null;

 final int first = segment.offset;
 final int length = segment.length;
 final int level = segment.level;

#if #keyclass(Character)
 final int signMask = 0;
#else
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
#endif

 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the
 shift that extract the right byte from a key

 // Count keys.
 for(int i = first + length; i-- != first;) count[INT(KEY2LEXINT(a[perm[i]]) >>> shift & DIGIT_MASK ^
signMask)]++;
 // Compute cumulative distribution
 int lastUsed = -1;
 for (int i = 0, p = first; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) lastUsed = i;
 pos[i] = (p += count[i]);
 }

 if (stable) {
 for(int i = first + length; i-- != first;) support[--pos[INT(KEY2LEXINT(a[perm[i]]) >>> shift &
DIGIT_MASK ^ signMask)]] = perm[i];
 System.arraycopy(
support, first, perm, first, length);
 for(int i = 0, p = first; i <= lastUsed; i++) {
 if (level < maxLevel && count[i] > 1) {
 if (count[i] < PARALLEL_RADIXSORT_NO_FORK) radixSortIndirect(perm, a, p, p + count[i], stable);
 } else {
 queueSize.incrementAndGet();
 queue.add(new Segment(p, count[i], level + 1));
 }
 }
 p += count[i];
 }
 java.util.Arrays.fill(count, 0);
}
else {
 final int end = first + length - count[lastUsed];
 // i moves through the start of each block
 for(int i = first, c = -1, d; i <= end; i += count[c], count[c] = 0) {
 int t = perm[i];
 c = INT(KEY2LEXINT(a[t]) >>> shift & DIGIT_MASK ^ signMask);
 }
}

```

```

 if (i < end) { // When all slots are OK, the last slot is necessarily OK.
 while((d = --pos[c]) > i) {
 final int z = t;
 t = perm[d];
 perm[d] = z;
 c
= INT(KEY2LEXINT(a[t]) >>> shift & DIGIT_MASK ^ signMask);
 }
 perm[i] = t;
 }

 if (level < maxLevel && count[c] > 1) {
 if (count[c] < PARALLEL_RADIXSORT_NO_FORK) radixSortIndirect(perm, a, i, i + count[c], stable);
 else {
 queueSize.incrementAndGet();
 queue.add(new Segment(i, count[c], level + 1));
 }
 }
}
queueSize.decrementAndGet();
}
});

```

```

Throwable problem = null;
for(int i = numberOfThreads; i-- != 0;)
try {
 executorCompletionService.take().get();
}
catch(Exception e) {
 problem = e.getCause(); // We keep only the last one. They will be logged anyway.
}

```

```

executorService.shutdown();
if (problem != null) throw (problem instanceof RuntimeException) ? (RuntimeException)problem : new
RuntimeException(problem);
}

```

/\*\* Sorts the specified array using parallel indirect radix sort.

\*

\* <p>The sorting algorithm is

a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas

\* McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).

\*

\* <p>This method implement an <em>indirect</em> sort. The elements of <code>perm</code> (which must

\* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that

```

* <code>a[perm[i]] ≤ a[perm[i + 1]]</code>.
*
* <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
*
* @param perm a permutation array indexing <code>a</code>.
* @param a the array to be sorted.
* @param stable whether the sorting algorithm should be stable.
*/
public static void parallelRadixSortIndirect(final int perm[], final KEY_TYPE[] a, final boolean stable) {
 parallelRadixSortIndirect(perm, a, 0, a.length, stable);
}

/** Sorts the specified pair of arrays lexicographically using radix sort.
* <p>The sorting algorithm is a
tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
*
* <p>This method implements a lexicographical sorting of the arguments. Pairs of elements
* in the same position in the two provided arrays will be considered a single key, and permuted
* accordingly. In the end, either <code>a[i] < a[i + 1]</code> or <code>a[i] == a[i + 1]</code> and
<code>b[i] ≤ b[i + 1]</code>.
*
* @param a the first array to be sorted.
* @param b the second array to be sorted.
*/

public static void radixSort(final KEY_TYPE[] a, final KEY_TYPE[] b) {
 ensureSameLength(a, b);
 radixSort(a, b, 0, a.length);
}

/** Sorts the specified range of elements of two arrays using radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
McIlroy, “Engineering radix
sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
*
* <p>This method implements a lexicographical sorting of the arguments. Pairs of elements
* in the same position in the two provided arrays will be considered a single key, and permuted
* accordingly. In the end, either <code>a[i] < a[i + 1]</code> or <code>a[i] == a[i + 1]</code> and
<code>b[i] ≤ b[i + 1]</code>.
*
* @param a the first array to be sorted.
* @param b the second array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
*/

public static void radixSort(final KEY_TYPE[] a, final KEY_TYPE[] b, final int from, final int to) {

```

```

if (to - from < RADIXSORT_NO_REC) {
 selectionSort(a, b, from, to);
 return;
}

final int layers = 2;
final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;

final int stackSize = ((1 << DIGIT_BITS) - 1) * (
layers * DIGITS_PER_ELEMENT - 1) + 1;
int stackPos = 0;
final int[] offsetStack = new int[stackSize];
final int[] lengthStack = new int[stackSize];
final int[] levelStack = new int[stackSize];

offsetStack[stackPos] = from;
lengthStack[stackPos] = to - from;
levelStack[stackPos++] = 0;

final int[] count = new int[1 << DIGIT_BITS];
final int[] pos = new int[1 << DIGIT_BITS];

while(stackPos > 0) {
 final int first = offsetStack[--stackPos];
 final int length = lengthStack[stackPos];
 final int level = levelStack[stackPos];
 #if #keyclass(Character)
 final int signMask = 0;
 #else
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 #endif

 final KEY_TYPE[] k = level < DIGITS_PER_ELEMENT ? a : b; // This is the key array
 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

 // Count keys.
 for(int
i = first + length; i-- != first;) count[INT(KEY2LEXINT(k[i]) >>> shift & DIGIT_MASK ^ signMask)]++;

 // Compute cumulative distribution
 int lastUsed = -1;
 for (int i = 0, p = first; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) lastUsed = i;
 pos[i] = (p += count[i]);
 }
}

```

```

final int end = first + length - count[lastUsed];
// i moves through the start of each block
for(int i = first, c = -1, d; i <= end; i += count[c], count[c] = 0) {
 KEY_TYPE t = a[i];
 KEY_TYPE u = b[i];
 c = INT(KEY2LEXINT(k[i]) >>> shift & DIGIT_MASK ^ signMask);

 if (i < end) { // When all slots are OK, the last slot is necessarily OK.
 while((d = --pos[c]) > i) {
 c = INT(KEY2LEXINT(k[d]) >>> shift & DIGIT_MASK ^ signMask);
 KEY_TYPE z = t;
 t = a[d];
 a[d] = z;
 z = u;
 u = b[d];
 b[d] = z;
 }
 a[i] = t;
 b[i] = u;
 }

 if (level < maxLevel && count[
c] > 1) {
 if (count[c] < RADIXSORT_NO_REC) selectionSort(a, b, i, i + count[c]);
 else {
 offsetStack[stackPos] = i;
 lengthStack[stackPos] = count[c];
 levelStack[stackPos++] = level + 1;
 }
 }
}
}
}

/** Sorts the specified range of elements of two arrays using a parallel radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
 * McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
 *
 * <p>This method implements a lexicographical sorting of the arguments. Pairs of elements
 * in the same position in the two provided arrays will be considered a single key, and permuted
 * accordingly. In the end, either <code>a[i] < a[i + 1]</code> or <code>a[i] == a[i + 1]</code> and
 * <code>b[i] ≤ b[i + 1]</code>.
 *
 * <p>This implementation uses a pool of { @link Runtime#availableProcessors() }
 threads.
 *

```



```

* @param a the first array to be sorted.
* @param b the second array to be sorted.
* @param from the index of the first element (inclusive) to be sorted.
* @param to the index of the last element (exclusive) to be sorted.
*/
public static void parallelRadixSort(final KEY_TYPE[] a, final KEY_TYPE[] b, final int from, final int to) {
 if (to - from < PARALLEL_RADIXSORT_NO_FORK) {
 quickSort(a, b, from, to);
 return;
 }
 final int layers = 2;
 if (a.length != b.length) throw new IllegalArgumentException("Array size mismatch.");
 final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;
 final LinkedBlockingQueue<Segment> queue = new LinkedBlockingQueue<Segment>();
 queue.add(new Segment(from, to - from, 0));
 final AtomicInteger queueSize = new AtomicInteger(1);
 final int numberOfThreads = Runtime.getRuntime().availableProcessors();
 final ExecutorService executorService = Executors.newFixedThreadPool(numberOfThreads,
 Executors.defaultThreadFactory()
);
 final ExecutorCompletionService<Void> executorCompletionService = new ExecutorCompletionService<Void>(
 executorService);
 for (int i = numberOfThreads; i-- != 0;)
 executorCompletionService.submit(new Callable<Void>() {
 public Void call() throws Exception {
 final int[] count = new int[1 << DIGIT_BITS];
 final int[] pos = new int[1 << DIGIT_BITS];
 for (;;) {
 if (queueSize.get() == 0) for (int i = numberOfThreads; i-- != 0;)
 queue.add(POISON_PILL);
 final Segment segment = queue.take();
 if (segment == POISON_PILL) return null;
 final int first = segment.offset;
 final int length = segment.length;
 final int level = segment.level;
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 final KEY_TYPE[] k = level < DIGITS_PER_ELEMENT ? a : b; // This is the key array
 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS;

 // Count keys.
 for (int i = first + length; i-- != first;)
 count[INT(KEY2LEXINT(k[i]) >>> shift & DIGIT_MASK ^ signMask)]++;
 // Compute cumulative distribution
 int lastUsed = -1;
 for (int i = 0, p = first; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) lastUsed = i;
 pos[i] = (p += count[i]);
 }
 }
 }
 });
}

```

```

final int end = first + length - count[lastUsed];
for (int i = first, c = -1, d; i <= end; i += count[c], count[c] = 0) {
 KEY_TYPE t = a[i];
 KEY_TYPE u = b[i];
 c = INT(KEY2LEXINT(k[i]) >>> shift & DIGIT_MASK ^ signMask);
 if (i < end) { // When all slots are OK, the last slot is necessarily OK.
 while ((d = --pos[c]) > i) {
 c = INT(KEY2LEXINT(k[d]) >>> shift & DIGIT_MASK ^ signMask);
 final KEY_TYPE z = t;
 final KEY_TYPE w = u;
 t = a[d];
 u = b[d];
 a[d] = z;
 b[d]
= w;
 }
 a[i] = t;
 b[i] = u;
 }
 if (level < maxLevel && count[c] > 1) {
 if (count[c] < PARALLEL_RADIXSORT_NO_FORK) quickSort(a, b, i, i + count[c]);
 else {
 queueSize.incrementAndGet();
 queue.add(new Segment(i, count[c], level + 1));
 }
 }
 queueSize.decrementAndGet();
}
});
Throwable problem = null;
for (int i = numberOfThreads; i-- != 0;)
try {
 executorCompletionService.take().get();
}
catch (Exception e) {
 problem = e.getCause(); // We keep only the last one. They will be logged anyway.
}
executorService.shutdown();
if (problem != null) throw (problem instanceof RuntimeException) ? (RuntimeException)problem : new
RuntimeException(problem);
}

/** Sorts two arrays using a parallel radix sort.
 *
 * <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas

```

```

* McIlroy,
“Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
*
* <p>This method implements a lexicographical sorting of the arguments. Pairs of elements
* in the same position in the two provided arrays will be considered a single key, and permuted
* accordingly. In the end, either <code>a[i] < a[i + 1]</code> or <code>a[i] == a[i + 1]</code> and
<code>b[i] ≤ b[i + 1]</code>.
*
* <p>This implementation uses a pool of { @link Runtime#availableProcessors() } threads.
*
* @param a the first array to be sorted.
* @param b the second array to be sorted.
*/
public static void parallelRadixSort(final KEY_TYPE[] a, final KEY_TYPE[] b) {
 ensureSameLength(a, b);
 parallelRadixSort(a, b, 0, a.length);
}

private static KEY_GENERIC void insertionSortIndirect(final int[] perm, final KEY_TYPE[] a, final
KEY_TYPE[] b, final int from, final int to) {
 for (int i = from; ++i < to;) {
 int t = perm[
i];
 int j = i;
 for (int u = perm[j - 1]; KEY_LESS(a[t], a[u]) || KEY_CMP_EQ(a[t], a[u]) && KEY_LESS(b[t], b[u]
); u = perm[--j - 1]) {
 perm[j] = u;
 if (from == j - 1) {
 --j;
 break;
 }
 }
 perm[j] = t;
 }
}

/** Sorts the specified pair of arrays lexicographically using indirect radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
*
* <p>This method implement an indirect sort. The elements of <code>perm</code> (which must
* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
* <code>a[perm[i]] ≤ a[perm[i + 1]]</code>.
*
* <p>This implementation will allocate, in the stable case, a further support array as large as <code>perm</code>
(note that the stable

```

```

* version is slightly
faster).
*
* @param perm a permutation array indexing <code>a</code>.
* @param a the array to be sorted.
* @param b the second array to be sorted.
* @param stable whether the sorting algorithm should be stable.
*/
public static void radixSortIndirect(final int[] perm, final KEY_TYPE[] a, final KEY_TYPE[] b, final boolean
stable) {
 ensureSameLength(a, b);
 radixSortIndirect(perm, a, b, 0, a.length, stable);
}

/** Sorts the specified pair of arrays lexicographically using indirect radix sort.
*
* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas
* McIlroy, “Engineering radix sort”, <i>Computing Systems</i>, 6(1), pages 5−27 (1993).
*
* <p>This method implement an indirect sort. The elements of <code>perm</code> (which must
* be exactly the numbers in the interval <code>[0..perm.length)</code>) will be permuted so that
* <code>a[perm[i]] ≤ a[perm[i +
1]]</code>.
*
* <p>This implementation will allocate, in the stable case, a further support array as large as <code>perm</code>
(note that the stable
* version is slightly faster).
*
* @param perm a permutation array indexing <code>a</code>.
* @param a the array to be sorted.
* @param b the second array to be sorted.
* @param from the index of the first element of <code>perm</code> (inclusive) to be permuted.
* @param to the index of the last element of <code>perm</code> (exclusive) to be permuted.
* @param stable whether the sorting algorithm should be stable.
*/
public static void radixSortIndirect(final int[] perm, final KEY_TYPE[] a, final KEY_TYPE[] b, final int from,
final int to, final boolean stable) {
 if (to - from < RADIXSORT_NO_REC) {
 insertionSortIndirect(perm, a, b, from, to);
 return;
 }

 final int layers = 2;
 final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;

 final int stackSize = ((1 << DIGIT_BITS) - 1) * (layers
* DIGITS_PER_ELEMENT - 1) + 1;
 int stackPos = 0;

```

```

final int[] offsetStack = new int[stackSize];
final int[] lengthStack = new int[stackSize];
final int[] levelStack = new int[stackSize];

offsetStack[stackPos] = from;
lengthStack[stackPos] = to - from;
levelStack[stackPos++] = 0;

final int[] count = new int[1 << DIGIT_BITS];
final int[] pos = new int[1 << DIGIT_BITS];
final int[] support = stable ? new int[perm.length] : null;

while(stackPos > 0) {
 final int first = offsetStack[--stackPos];
 final int length = lengthStack[stackPos];
 final int level = levelStack[stackPos];
 #if #keyclass(Character)
 final int signMask = 0;
 #else
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 #endif

 final KEY_TYPE[] k = level < DIGITS_PER_ELEMENT ? a : b; // This is the key array
 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the
shift that extract
the right byte from a key

 // Count keys.
 for(int i = first + length; i-- != first;) count[INT(KEY2LEXINT(k[perm[i]]) >>> shift & DIGIT_MASK ^
signMask)]++;

 // Compute cumulative distribution
 int lastUsed = -1;
 for (int i = 0, p = stable ? 0 : first; i < 1 << DIGIT_BITS; i++) {
 if (count[i] != 0) lastUsed = i;
 pos[i] = (p += count[i]);
 }

 if (stable) {
 for(int i = first + length; i-- != first;) support[--pos[INT(KEY2LEXINT(k[perm[i]]) >>> shift &
DIGIT_MASK ^ signMask)]] = perm[i];
 System.arraycopy(support, 0, perm, first, length);
 for(int i = 0, p = first; i < 1 << DIGIT_BITS; i++) {
 if (level < maxLevel && count[i] > 1) {
 if (count[i] < RADIXSORT_NO_REC) insertionSortIndirect(perm, a, b, p, p + count[i]);
 }
 else {
 offsetStack[stackPos] = p;
 lengthStack[stackPos] = count[i];
 }
 }
 }
}

```

```

 levelStack[stackPos++] = level + 1;
 }
 }
 p += count[
i];
 }
 java.util.Arrays.fill(count, 0);
 }
 else {
 final int end = first + length - count[lastUsed];
 // i moves through the start of each block
 for(int i = first, c = -1, d; i <= end; i += count[c], count[c] = 0) {
 int t = perm[i];
 c = INT(KEY2LEXINT(k[t]) >>> shift & DIGIT_MASK ^ signMask);

 if (i < end) { // When all slots are OK, the last slot is necessarily OK.
 while((d = --pos[c]) > i) {
 final int z = t;
 t = perm[d];
 perm[d] = z;
 c = INT(KEY2LEXINT(k[t]) >>> shift & DIGIT_MASK ^ signMask);
 }
 perm[i] = t;
 }

 if (level < maxLevel && count[c] > 1) {
 if (count[c] < RADIXSORT_NO_REC) insertionSortIndirect(perm, a, b, i, i + count[c]);
 else {
 offsetStack[stackPos] = i;
 lengthStack[stackPos] = count[c];
 levelStack[stackPos++] = level + 1;
 }
 }
 }
 }
 }
 }
 }
}

```

```

private static void selectionSort(
final KEY_TYPE[][] a, final int from, final int to, final int level) {
 final int layers = a.length;
 final int firstLayer = level / DIGITS_PER_ELEMENT;

 for(int i = from; i < to - 1; i++) {

```

```

int m = i;
for(int j = i + 1; j < to; j++) {
for(int p = firstLayer; p < layers; p++) {
if (a[p][j] < a[p][m]) {
m = j;
break;
}
else if (a[p][j] > a[p][m]) break;
}
}
if (m != i) {
for(int p = layers; p-- != 0;) {
final KEY_TYPE u = a[p][i];
a[p][i] = a[p][m];
a[p][m] = u;
}
}
}
}

```

/\*\* Sorts the specified array of arrays lexicographically using radix sort.

\*

\* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).

\*

\* <p>This method implements a <em>lexicographical</em> sorting of the provided arrays.

Tuples of elements

\* in the same position will be considered a single key, and permuted

\* accordingly.

\*

\* @param a an array containing arrays of equal length to be sorted lexicographically in parallel.

\*/

```

public static void radixSort(final KEY_TYPE[][] a) {
radixSort(a, 0, a[0].length);
}

```

/\*\* Sorts the specified array of arrays lexicographically using radix sort.

\*

\* <p>The sorting algorithm is a tuned radix sort adapted from Peter M. McIlroy, Keith Bostic and M. Douglas McIlroy, &ldquo;Engineering radix sort&rdquo;, <i>Computing Systems</i>, 6(1), pages 5&minus;27 (1993).

\*

\* <p>This method implements a <em>lexicographical</em> sorting of the provided arrays. Tuples of elements

\* in the same position will be considered a single key, and permuted

\* accordingly.

\*

\* @param a an array containing arrays of equal length to be sorted lexicographically in parallel.

```

* @param from the index of the first element (inclusive) to be sorted.
* @param
to the index of the last element (exclusive) to be sorted.
*/
public static void radixSort(final KEY_TYPE[][] a, final int from, final int to) {
 if (to - from < RADIXSORT_NO_REC) {
 selectionSort(a, from, to, 0);
 return;
 }

 final int layers = a.length;
 final int maxLevel = DIGITS_PER_ELEMENT * layers - 1;
 for(int p = layers, l = a[0].length; p-- != 0;) if (a[p].length != l) throw new IllegalArgumentException("The
array of index " + p + " has not the same length of the array of index 0.");

 final int stackSize = ((1 << DIGIT_BITS) - 1) * (layers * DIGITS_PER_ELEMENT - 1) + 1;
 int stackPos = 0;
 final int[] offsetStack = new int[stackSize];
 final int[] lengthStack = new int[stackSize];
 final int[] levelStack = new int[stackSize];

 offsetStack[stackPos] = from;
 lengthStack[stackPos] = to - from;
 levelStack[stackPos++] = 0;

 final int[] count = new int[1 << DIGIT_BITS];
 final int[] pos = new int[1 << DIGIT_BITS
];
 final KEY_TYPE[] t = new KEY_TYPE[layers];

 while(stackPos > 0) {
 final int first = offsetStack[--stackPos];
 final int length = lengthStack[stackPos];
 final int level = levelStack[stackPos];
 #if #keyclass(Character)
 final int signMask = 0;
 #else
 final int signMask = level % DIGITS_PER_ELEMENT == 0 ? 1 << DIGIT_BITS - 1 : 0;
 #endif

 final KEY_TYPE[] k = a[level / DIGITS_PER_ELEMENT]; // This is the key array
 final int shift = (DIGITS_PER_ELEMENT - 1 - level % DIGITS_PER_ELEMENT) * DIGIT_BITS; // This is the
shift that extract the right byte from a key

 // Count keys.
 for(int i = first + length; i-- != first;) count[INT(KEY2LEXINT(k[i]) >>> shift & DIGIT_MASK ^ signMask)
]++;

```





```

* @param to the index of the last element (exclusive) to be shuffled.
* @param random a pseudorandom number generator (please use a XorShift* generator).
* @return <code>a</code>.
*/
public static KEY_GENERIC KEY_GENERIC_TYPE[] shuffle(final KEY_GENERIC_TYPE[] a, final int from,
final int to, final Random random) {
 for(int i = to - from; i-- != 0;) {
 final int p = random.nextInt(i + 1);
 final KEY_GENERIC_TYPE t = a[from + i];
 a[from + i] = a[from + p];
 a[from + p] = t;
 }
 return a;
}

/** Shuffles the specified array using the specified pseudorandom number generator.
*
* @param a the array to be shuffled.
* @param random a pseudorandom number generator (please
use a XorShift*
generator).
* @return <code>a</code>.
*/
public static KEY_GENERIC KEY_GENERIC_TYPE[] shuffle(final KEY_GENERIC_TYPE[] a, final Random
random) {
 for(int i = a.length; i-- != 0;) {
 final int p = random.nextInt(i + 1);
 final KEY_GENERIC_TYPE t = a[i];
 a[i] = a[p];
 a[p] = t;
 }
 return a;
}

/** Reverses the order of the elements in the specified array.
*
* @param a the array to be reversed.
* @return <code>a</code>.
*/
public static KEY_GENERIC KEY_GENERIC_TYPE[] reverse(final KEY_GENERIC_TYPE[] a) {
 final int length = a.length;
 for(int i = length / 2; i-- != 0;) {
 final KEY_GENERIC_TYPE t = a[length - i - 1];
 a[length - i - 1] = a[i];
 a[i] = t;
 }
 return a;
}

```

```

}

/** Reverses the order of the elements in the specified array fragment.
 *
 * @param a the array to be reversed.
 * @param from the index
of the first element (inclusive) to be reversed.
 * @param to the index of the last element (exclusive) to be reversed.
 * @return <code>a</code>.
 */
public static KEY_GENERIC KEY_GENERIC_TYPE[] reverse(final KEY_GENERIC_TYPE[] a, final int from,
final int to) {
 final int length = to - from;
 for(int i = length / 2; i-- != 0;) {
 final KEY_GENERIC_TYPE t = a[from + length - i - 1];
 a[from + length - i - 1] = a[from + i];
 a[from + i] = t;
 }
 return a;
}

/** A type-specific content-based hash strategy for arrays. */

private static final class ArrayHashStrategy KEY_GENERIC implements
Hash.Strategy<KEY_GENERIC_TYPE[]>, java.io.Serializable {
 private static final long serialVersionUID = -7046029254386353129L;

 public int hashCode(final KEY_GENERIC_TYPE[] o) {
 return java.util.Arrays.hashCode(o);
 }

 public boolean equals(final KEY_GENERIC_TYPE[] a, final KEY_GENERIC_TYPE[] b) {
 return java.util.Arrays.equals(a, b);
 }
}

/** A type-specific
content-based hash strategy for arrays.
 *
 * <P>This hash strategy may be used in custom hash collections whenever keys are
 * arrays, and they must be considered equal by content. This strategy
 * will handle <code>null</code> correctly, and it is serializable.
 */

#if #keys(primitive)
 public final static Hash.Strategy<KEY_TYPE[]> HASH_STRATEGY = new ArrayHashStrategy();
#else
 @SuppressWarnings({"rawtypes"})

```

```
public final static Hash.Strategy HASH_STRATEGY = new ArrayHashStrategy();
#endif

}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Arrays.drv
```

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

```
/*
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSet;
import it.unimi.dsi.fastutil.objects.ObjectSets;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;
import VALUE_PACKAGE.VALUE_COLLECTIONS;
#if ! #valueclass(Object)
import VALUE_PACKAGE.VALUE_SETS;
#endif
```

```
import java.util.Map;
```

```
/** A class providing static methods
 and objects that do useful things with type-specific maps.
 *
 * @see it.unimi.dsi.fastutil.Maps
 * @see java.util.Collections
 */
```

```
public class MAPS {
```

```

private MAPS() {}

/** An immutable class representing an empty type-specific map.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific map.
 */

public static class EmptyMap KEY_VALUE_GENERIC extends FUNCTIONS.EmptyFunction
KEY_VALUE_GENERIC implements MAP KEY_VALUE_GENERIC, java.io.Serializable, Cloneable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected EmptyMap() {}

 public boolean containsValue(final VALUE_TYPE v) { return false; }

 public void putAll(final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m) {
 throw new UnsupportedOperationException(); }

 @SuppressWarnings("unchecked")
 public ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { return ObjectSets.EMPTY_SET; }

 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public
 SET KEY_GENERIC keySet() { return SETS.EMPTY_SET; }

 SUPPRESS_WARNINGS_VALUE_UNCHECKED
 public VALUE_COLLECTION VALUE_GENERIC values() { return VALUE_SETS.EMPTY_SET; }

 #if #values(primitive)
 public boolean containsValue(final Object ov) { return false; }
 #endif

 private Object readResolve() { return EMPTY_MAP; }

 public Object clone() { return EMPTY_MAP; }

 public boolean isEmpty() { return true; }

 @SuppressWarnings({ "rawtypes", "unchecked" })
 public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSet)ENTRYSET(); }

 public int hashCode() { return 0; }

 public boolean equals(final Object o) {

```

```

if (! (o instanceof Map)) return false;

return ((Map<?,?>)o).isEmpty();
}

public String toString() { return "{}"; }
}

/** An empty type-specific map (immutable). It is serializable and cloneable. */

SUPPRESS_WARNINGS_KEY_VALUE_RAWTYPES
public static final EmptyMap EMPTY_MAP = new EmptyMap();

/**
An immutable class representing a type-specific singleton map.
*
* <P>This class may be useful to implement your own in case you subclass
* a type-specific map.
*/

public static class Singleton KEY_VALUE_GENERIC extends FUNCTIONS.Singleton KEY_VALUE_GENERIC
implements MAP KEY_VALUE_GENERIC, java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

protected transient volatile ObjectSet<MAP.Entry KEY_VALUE_GENERIC> entries;
protected transient volatile SET KEY_GENERIC keys;
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

protected Singleton(final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value) {
super(key, value);
}

public boolean containsValue(final VALUE_TYPE v) { return VALUE_EQUALS(value, v); }
#if #values(primitive)
public boolean containsValue(final Object ov) { return VALUE_EQUALS(VALUE_OBJ2TYPE(ov), value); }
#endif

public void putAll(final Map<?
extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m) { throw new
UnsupportedOperationException(); }

public ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if (entries == null) entries =
ObjectSets.singleton((MAP.Entry KEY_VALUE_GENERIC)new SingletonEntry()); return entries; }
public SET KEY_GENERIC keySet() { if (keys == null) keys = SETS.singleton(key); return keys; }

```

```

public VALUE_COLLECTION VALUE_GENERIC values() { if (values == null) values =
VALUE_SETS.singleton(value); return values; }

protected class SingletonEntry implements MAP.Entry KEY_VALUE_GENERIC,
Map.Entry<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> {
#if #keys(primitive)
/** { @inheritDoc}
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
public KEY_GENERIC_CLASS getKey() { return KEY2OBJ(Singleton.this.key); }
#if #values(primitive)
/** { @inheritDoc}
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
public
VALUE_GENERIC_CLASS getValue() { return VALUE2OBJ(Singleton.this.value); }

#if #keys(primitive)
public KEY_GENERIC_TYPE ENTRY_GET_KEY() { return Singleton.this.key; }
#endif

#if #values(primitive)
public VALUE_GENERIC_TYPE ENTRY_GET_VALUE() { return Singleton.this.value; }
public VALUE_GENERIC_TYPE setValue(final VALUE_GENERIC_TYPE value) { throw new
UnsupportedOperationException(); }
#endif

public VALUE_GENERIC_CLASS setValue(final VALUE_GENERIC_CLASS value) { throw new
UnsupportedOperationException(); }

public boolean equals(final Object o) {
if (!(o instanceof Map.Entry)) return false;
Map.Entry<?,?> e = (Map.Entry<?,?>)o;

return KEY_EQUALS(Singleton.this.key, KEY_OBJ2TYPE(e.getKey())) && VALUE_EQUALS(
Singleton.this.value, VALUE_OBJ2TYPE(e.getValue()));
}

public int hashCode() { return KEY2JAVAHASH(Singleton.this.key) ^ VALUE2JAVAHASH(
Singleton.this.value); }
public String toString() { return
Singleton.this.key + "->" + Singleton.this.value; }
}

public boolean isEmpty() { return false; }

```

```

@SuppressWarnings({ "rawtypes", "unchecked" })
public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSet)ENTRYSET(); }

public int hashCode() { return KEY2JAVAHASH(key) ^ VALUE2JAVAHASH(value); }

public boolean equals(final Object o) {
if (o == this) return true;
if (! (o instanceof Map)) return false;

Map<?,?> m = (Map<?,?>)o;
if (m.size() != 1) return false;
return entrySet().iterator().next().equals(m.entrySet().iterator().next());
}

public String toString() { return "{" + key + "=>" + value + "}"; }
}

/** Returns a type-specific immutable map containing only the specified pair. The returned map is serializable and
cloneable.
*
* <P>Note that albeit the returned map is immutable, its default return value may be changed.
*
* @param key the only key of the returned map.
* @param
value the only value of the returned map.
* @return a type-specific immutable map containing just the pair <code><key,value></code>.
*/

public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC singleton(final KEY_GENERIC_TYPE
key, VALUE_GENERIC_TYPE value) {
return new Singleton KEY_VALUE_GENERIC(key, value);
}

#if #keys(primitive) || #values(primitive)

/** Returns a type-specific immutable map containing only the specified pair. The returned map is serializable and
cloneable.
*
* <P>Note that albeit the returned map is immutable, its default return value may be changed.
*
* @param key the only key of the returned map.
* @param value the only value of the returned map.
* @return a type-specific immutable map containing just the pair <code><key,value></code>.
*/

public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC singleton(final KEY_GENERIC_CLASS
key, final VALUE_GENERIC_CLASS value) {

```



```

return new Singleton KEY_VALUE_GENERIC(KEY_CLASS2TYPE(
key), VALUE_CLASS2TYPE(value));
}

#endif

/** A synchronized wrapper class for maps. */

public static class SynchronizedMap KEY_VALUE_GENERIC extends FUNCTIONS.SynchronizedFunction
KEY_VALUE_GENERIC implements MAP KEY_VALUE_GENERIC, java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final MAP KEY_VALUE_GENERIC map;

protected transient volatile ObjectSet<MAP.Entry KEY_VALUE_GENERIC> entries;
protected transient volatile SET KEY_GENERIC keys;
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

protected SynchronizedMap(final MAP KEY_VALUE_GENERIC m, final Object sync) {
super(m, sync);
this.map = m;
}

protected SynchronizedMap(final MAP KEY_VALUE_GENERIC m) {
super(m);
this.map = m;
}

public int size() { synchronized(sync) { return map.size(); } }
public boolean containsKey(final KEY_TYPE k) { synchronized(sync) { return map.containsKey(k); } }
public
boolean containsValue(final VALUE_TYPE v) { synchronized(sync) { return map.containsValue(v); } }

public VALUE_GENERIC_TYPE defaultReturnValue() { synchronized(sync) { return map.defaultReturnValue(); } }
public void defaultReturnValue(final VALUE_GENERIC_TYPE defRetVal) { synchronized(sync) {
map.defaultReturnValue(defRetVal); } }

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
synchronized(sync) { return map.put(k, v); } }

//public void putAll(final MAP KEY_VALUE_EXTENDS_GENERIC c) { synchronized(sync) { map.putAll(c); } }
public void putAll(final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m) {
synchronized(sync) { map.putAll(m); } }

```

```

public ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if (entries == null) entries =
ObjectSets.synchronize(map.ENTRYSET(), sync); return entries; }
public SET KEY_GENERIC keySet() { if (keys == null) keys = SETS.synchronize(map.keySet(),
sync); return keys; }
public VALUE_COLLECTION VALUE_GENERIC values() { if (values == null) return
VALUE_COLLECTIONS.synchronize(map.values(), sync); return values; }

public void clear() { synchronized(sync) { map.clear(); } }
public String toString() { synchronized(sync) { return map.toString(); } }

#if #keys(primitive) || #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS k, final VALUE_GENERIC_CLASS v) {
synchronized(sync) { return map.put(k, v); } }
#endif

#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_TYPE remove(final KEY_GENERIC_TYPE k) { synchronized(sync) { return
map.remove(k); } }
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method
instead. */
@Deprecated
@Override
public VALUE_GENERIC_TYPE get(final KEY_GENERIC_TYPE k) { synchronized(sync) { return map.get(k
); } }
public boolean containsKey(final Object ok) { synchronized(sync) { return map.containsKey(ok); } }
#endif

#if #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public boolean containsValue(final Object ov) { synchronized(sync) { return map.containsValue(ov); } }
#endif

#if #keys(reference)
#if #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */

```

```

 @Deprecated
 @Override
#endif
 public VALUE_GENERIC_TYPE REMOVE_VALUE(final Object k) { synchronized(sync) { return
map.REMOVE_VALUE(k); } }
#if #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 @Override
#endif
 public VALUE_GENERIC_TYPE
GET_VALUE(final Object k) { synchronized(sync) { return map.GET_VALUE(k); } }
#endif

 public boolean isEmpty() { synchronized(sync) { return map.isEmpty(); } }
 public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() {
synchronized(sync) { return map.entrySet(); } }

 public int hashCode() { synchronized(sync) { return map.hashCode(); } }
 public boolean equals(final Object o) { synchronized(sync) { return map.equals(o); } }
}

/** Returns a synchronized type-specific map backed by the given type-specific map.
*
* @param m the map to be wrapped in a synchronized map.
* @return a synchronized view of the specified map.
* @see java.util.Collections#synchronizedMap(Map)
*/
public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC synchronize(final MAP
KEY_VALUE_GENERIC m) { return new SynchronizedMap KEY_VALUE_GENERIC(m); }

/** Returns a synchronized type-specific map backed by the given type-specific map, using an assigned
object to synchronize.
*
* @param m the map to be wrapped in a synchronized map.
* @param sync an object that will be used to synchronize the access to the map.
* @return a synchronized view of the specified map.
* @see java.util.Collections#synchronizedMap(Map)
*/
public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC synchronize(final MAP
KEY_VALUE_GENERIC m, final Object sync) { return new SynchronizedMap KEY_VALUE_GENERIC(m,
sync); }

/** An unmodifiable wrapper class for maps. */

```

```

public static class UnmodifiableMap KEY_VALUE_GENERIC extends FUNCTIONS.UnmodifiableFunction
KEY_VALUE_GENERIC implements MAP KEY_VALUE_GENERIC, java.io.Serializable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected final MAP KEY_VALUE_GENERIC map;

 protected transient volatile ObjectSet<MAP.Entry KEY_VALUE_GENERIC> entries;
 protected transient volatile SET KEY_GENERIC keys;
 protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

 protected
 UnmodifiableMap(final MAP KEY_VALUE_GENERIC m) {
 super(m);
 this.map = m;
 }

 public int size() { return map.size(); }
 public boolean containsKey(final KEY_TYPE k) { return map.containsKey(k); }
 public boolean containsValue(final VALUE_TYPE v) { return map.containsValue(v); }

 public VALUE_GENERIC_TYPE defaultReturnValue() { throw new UnsupportedOperationException(); }
 public void defaultReturnValue(final VALUE_GENERIC_TYPE defRetVal) { throw new
 UnsupportedOperationException(); }

 public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 throw new UnsupportedOperationException(); }

 //public void putAll(final MAP KEY_VALUE_EXTENDS_GENERIC c) { throw new
 UnsupportedOperationException(); }
 public void putAll(final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m) {
 throw new UnsupportedOperationException(); }

 public ObjectSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if (entries
 == null) entries = ObjectSets.unmodifiable(map.ENTRYSET()); return entries; }
 public SET KEY_GENERIC keySet() { if (keys == null) keys = SETS.unmodifiable(map.keySet()); return keys;
 }
 public VALUE_COLLECTION VALUE_GENERIC values() { if (values == null) return
 VALUE_COLLECTIONS.unmodifiable(map.values()); return values; }

 public void clear() { throw new UnsupportedOperationException(); }
 public String toString() { return map.toString(); }

 #if #keys(primitive) && #values(primitive)
 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated

```

```

@Override
public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS k, final VALUE_GENERIC_CLASS v) {
throw new UnsupportedOperationException(); }
#endif

#if #keys(primitive)
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_TYPE remove(final KEY_GENERIC_TYPE k) { throw new
UnsupportedOperationException(); }
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_TYPE get(final KEY_GENERIC_TYPE k) { return map.get(k); }
public boolean containsKey(final Object ok) { return map.containsKey(ok); }
#endif

#if #values(primitive)
public boolean containsValue(final Object ov) { return map.containsValue(ov); }
#endif

#if #keys(reference) || #values(reference)
#if #values(primitive)
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
#endif
public VALUE_GENERIC_TYPE REMOVE_VALUE(final Object k) { throw new
UnsupportedOperationException(); }
#if #values(primitive)
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
#endif
public VALUE_GENERIC_TYPE GET_VALUE(final Object k) { return map.GET_VALUE(k); }
#endif

public
boolean isEmpty() { return map.isEmpty(); }
public ObjectSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
ObjectSets.unmodifiable(map.entrySet()); }
}

```

```

/** Returns an unmodifiable type-specific map backed by the given type-specific map.
 *
 * @param m the map to be wrapped in an unmodifiable map.
 * @return an unmodifiable view of the specified map.
 * @see java.util.Collections#unmodifiableMap(Map)
 */
public static KEY_VALUE_GENERIC MAP KEY_VALUE_GENERIC unmodifiable(final MAP
KEY_VALUE_GENERIC m) { return new UnmodifiableMap KEY_VALUE_GENERIC(m); }

}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Maps.drv
No license file was found, but licenses were detected in source scan.

```

```

/**
 * Copyright (C) 2007-2015 Sebastiano Vigna
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```

package PACKAGE;

```

```

import java.util.Map;
import java.util.NoSuchElementException;
import it.unimi.dsi.fastutil.objects.AbstractObjectIterator;
import it.unimi.dsi.fastutil.objects.AbstractObjectSet;
import it.unimi.dsi.fastutil.objects.ObjectIterator;

```

```

import VALUE_PACKAGE.VALUE_COLLECTION;
import VALUE_PACKAGE.VALUE_COLLECTIONS;
import
VALUE_PACKAGE.VALUE_ARRAY_SET;
import VALUE_PACKAGE.VALUE_ARRAYS;

```

```

/** A simple, brute-force implementation of a map based on two parallel backing arrays.
 *

```

\* <p>The main purpose of this  
 \* implementation is that of wrapping cleanly the brute-force approach to the storage of a very  
 \* small number of pairs: just put them into two parallel arrays and scan linearly to find an item.  
 \*/

```
public class ARRAY_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP KEY_VALUE_GENERIC
implements java.io.Serializable, Cloneable {
```

```
private static final long serialVersionUID = 1L;
/** The keys (valid up to {@link #size}, excluded). */
private transient KEY_TYPE[] key;
/** The values (parallel to {@link #key}). */
private transient VALUE_TYPE[] value;
/** The number of valid entries in {@link #key} and {@link #value}. */
private int size;
```

```
/** Creates a new empty array map with given key and value backing arrays. The resulting map will have as many
entries as the given arrays.
```

```
*
* <p>It is responsibility of the caller that the elements of <code>key</code> are distinct.
*
* @param key the key array.
* @param value the value array (it must have the same length as <code>key</code>).
*/
```

```
public ARRAY_MAP(final KEY_TYPE[] key, final VALUE_TYPE[] value) {
this.key = key;
this.value = value;
size = key.length;
if(key.length != value.length) throw new IllegalArgumentException("Keys and values have different lengths (" +
key.length + ", " + value.length + ")");
}
```

```
/** Creates a new empty array map.
*/
```

```
public ARRAY_MAP() {
this.key = ARRAYS.EMPTY_ARRAY;
this.value = VALUE_ARRAYS.EMPTY_ARRAY;
}
```

```
/** Creates a new empty array map of given capacity.
```

```
*
* @param capacity the initial capacity.
*/
public ARRAY_MAP(final int capacity) {
this.key = new KEY_TYPE[capacity];
this.value = new VALUE_TYPE[capacity];
}
```

```

/** Creates a new empty array map copying the entries of a given map.
 *
 * @param m a map.
 */
public ARRAY_MAP(final MAP KEY_VALUE_GENERIC m) {
 this(m.size());
 putAll(m);
}

/** Creates a new empty array map copying the entries of a given map.
 *
 * @param m a map.
 */
public ARRAY_MAP(final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS> m
) {
 this(m.size());
 putAll(m);
}

/** Creates a new array map with given key and value backing arrays, using the given number of elements.
 *
 * <p>It is responsibility of the caller that the first <code>size</code> elements of <code>key</code> are distinct.
 *
 * @param key the key array.
 * @param value the value array (it must have the same length as <code>key</code>).
 * @param size the number of valid elements in <code>key</code> and <code>value</code>.
 */
public ARRAY_MAP(final KEY_TYPE[] key, final VALUE_TYPE[] value, final int size) {
 this.key = key;
 this.value = value;
 this.size = size;
 if(key.length != value.length) throw new IllegalArgumentException(
 "Keys and values have different lengths (" + key.length + ", " + value.length + ")");
 if (size > key.length) throw new IllegalArgumentException("The provided size (" + size + ") is larger than or equal
to the backing-arrays size (" + key.length + ")");
}

private final class EntrySet extends AbstractObjectSet<MAP.Entry KEY_VALUE_GENERIC> implements
FastEntrySet KEY_VALUE_GENERIC {

 @Override
 public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
 return new AbstractObjectIterator<MAP.Entry KEY_VALUE_GENERIC>() {
 int next = 0;

 public boolean hasNext() {

```



```

return next < size;
}

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public Entry KEY_VALUE_GENERIC next() {
 if (! hasNext()) throw new NoSuchElementException();
 return new ABSTRACT_MAP.BasicEntry KEY_VALUE_GENERIC(KEY_GENERIC_CAST key[next],
VALUE_GENERIC_CAST value[next++]);
}

};
}

public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator() {
 return
new AbstractObjectIterator<MAP.Entry KEY_VALUE_GENERIC>() {
 int next = 0;
 final BasicEntry KEY_VALUE_GENERIC entry = new BasicEntry KEY_VALUE_GENERIC (KEY_NULL,
VALUE_NULL);

 public boolean hasNext() {
 return next < size;
 }

 SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
 public Entry KEY_VALUE_GENERIC next() {
 if (! hasNext()) throw new NoSuchElementException();
 entry.key = KEY_GENERIC_CAST key[next];
 entry.value = VALUE_GENERIC_CAST value[next++];
 return entry;
 }

};
}

public int size() {
 return size;
}

@SuppressWarnings("unchecked")
public boolean contains(Object o) {
 if (! (o instanceof Map.Entry)) return false;
 final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final KEY_GENERIC_TYPE k = KEY_CLASS2TYPE(e.getKey());
 return ARRAY_MAP.this.containsKey(k) && VALUE_EQUALS(ARRAY_MAP.this.GET_VALUE(k),
VALUE_CLASS2TYPE(

```

```

e.getValue());
}

}

public FastEntrySet KEY_VALUE_GENERIC ENTRYSET() {
return new EntrySet();
}

private int findKey(final KEY_TYPE k) {
final KEY_TYPE[] key = this.key;
for(int i = size; i-- != 0;) if (KEY_EQUALS(key[i], k)) return i;
return -1;
}

SUPPRESS_WARNINGS_VALUE_UNCHECKED
#if #keys(primitive) || #values(primitive)
public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) {
#else
public VALUE_GENERIC_TYPE get(final Object k) {
#endif
final KEY_TYPE[] key = this.key;
for(int i = size; i-- != 0;) if (KEY_EQUALS(key[i], k)) return VALUE_GENERIC_CAST value[i];
return defRetValue;
}

public int size() {
return size;
}

@Override
public void clear() {
#if #keys(reference) || #values(reference)
for(int i = size; i-- != 0;) {
#if #keys(reference)
key[i] = null;
#endif
#if #values(reference)
value[i] = null;
#endif
}
#endif
size = 0;
}

@Override
public boolean containsKey(final KEY_TYPE k) {
return findKey(

```

```

k) != -1;
}

@Override
public boolean containsValue(VALUE_TYPE v) {
 for(int i = size; i-- != 0;) if (VALUE_EQUALS(value[i], v)) return true;
 return false;
}

@Override
public boolean isEmpty() {
 return size == 0;
}

@Override
SUPPRESS_WARNINGS_VALUE_UNCHECKED
public VALUE_GENERIC_TYPE put(KEY_GENERIC_TYPE k, VALUE_GENERIC_TYPE v) {
 final int oldKey = findKey(k);
 if (oldKey != -1) {
 final VALUE_GENERIC_TYPE oldValue = VALUE_GENERIC_CAST value[oldKey];
 value[oldKey] = v;
 return oldValue;
 }
 if (size == key.length) {
 final KEY_TYPE[] newKey = new KEY_TYPE[size == 0 ? 2 : size * 2];
 final VALUE_TYPE[] newValue = new VALUE_TYPE[size == 0 ? 2 : size * 2];
 for(int i = size; i-- != 0;) {
 newKey[i] = key[i];
 newValue[i] = value[i];
 }
 key = newKey;
 value = newValue;
 }
 key[size] = k;
 value[size] = v;
 size++;
 return defRetVal;
}

@Override
SUPPRESS_WARNINGS_VALUE_UNCHECKED
#if
#keys(primitive) || #values(primitive)
public VALUE_GENERIC_TYPE REMOVE_VALUE(final KEY_TYPE k) {
#else
public VALUE_GENERIC_TYPE remove(final Object k) {
#endif
 final int oldPos = findKey(k);

```

```

if (oldPos == -1) return defRetVal;
final VALUE_GENERIC_TYPE oldValue = VALUE_GENERIC_CAST value[oldPos];
final int tail = size - oldPos - 1;
for(int i = 0; i < tail; i++) {
 key[oldPos + i] = key[oldPos + i + 1];
 value[oldPos + i] = value[oldPos + i + 1];
}
size--;
#if #keys(reference)
 key[size] = null;
#endif
#if #values(reference)
 value[size] = null;
#endif
return oldValue;
}

@Override

public SET KEY_GENERIC keySet() {
 return new ARRAY_SET KEY_GENERIC(key, size);
}

@Override
public VALUE_COLLECTION VALUE_GENERIC values() {
 return VALUE_COLLECTIONS.unmodifiable(new VALUE_ARRAY_SET VALUE_GENERIC(value, size));
}

/** Returns a deep copy of this map.
 *
 * <P>This method performs a deep copy of this hash map; the data stored
in the
 * map, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this map.
 */

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public ARRAY_MAP KEY_VALUE_GENERIC clone() {
 ARRAY_MAP KEY_VALUE_GENERIC c;
 try {
 c = (ARRAY_MAP KEY_VALUE_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }
 c.key = key.clone();
 c.value = value.clone();
}

```

```
return c;
}
```

```
private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 s.defaultWriteObject();
 for(int i = 0; i < size; i++) {
 s.WRITE_KEY(key[i]);
 s.WRITE_VALUE(value[i]);
 }
}
```

```
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
 key = new KEY_TYPE[size];
 value = new VALUE_TYPE[size];
 for(int i = 0; i < size; i++) {
 key[i] = s.READ_KEY();
 value[i] = s.READ_VALUE();
 }
}
}
```

Found

in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayMap.drv

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

/\*

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\*/

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.Hash;
```

```
import it.unimi.dsi.fastutil.HashCommon;
```

```

import static it.unimi.dsi.fastutil.HashCommon.arraySize;
import static it.unimi.dsi.fastutil.HashCommon.maxFill;

import java.util.Map;
import java.util.Arrays;
import java.util.NoSuchElementException;

import VALUE_PACKAGE.VALUE_COLLECTION;
import
 VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;

#if #values(primitive) || #keys(primitive) && #valueclass(Object)
import VALUE_PACKAGE.VALUE_ITERATOR;
#endif

#ifdef Linked

import java.util.Comparator;

#if #key(reference)
import java.util.Collection;
import java.util.Iterator;
import java.util.Set;
import java.util.SortedMap;
import java.util.SortedSet;
#endif

#if #values(primitive)
import VALUE_PACKAGE.VALUE_LIST_ITERATOR;
#endif

#if #keys(primitive) && #valueclass(Reference)
import it.unimi.dsi.fastutil.objects.ObjectIterator;
#endif

import it.unimi.dsi.fastutil.objects.AbstractObjectSortedSet;
import it.unimi.dsi.fastutil.objects.ObjectListIterator;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;

#else

import it.unimi.dsi.fastutil.objects.AbstractObjectSet;

#if #keys(primitive) && ! #valueclass(Object)
import it.unimi.dsi.fastutil.objects.ObjectIterator;
#endif

```

#endif

#ifdef Linked

/\*\*

A type-specific linked hash map with with a fast, small-footprint implementation.

\*

\* <P>Instances of this class use a hash table to represent a map. The table is

\* filled up to a specified <em>load factor</em>, and then doubled in size to

\* accommodate new entries. If the table is emptied below <em>one fourth</em>

\* of the load factor, it is halved in size. However, halving is

\* not performed when deleting entries from an iterator, as it would interfere

\* with the iteration process.

\*

\* <p>Note that { @link #clear() } does not modify the hash table size.

\* Rather, a family of { @linkplain #trim() trimming

\* methods } lets you control the size of the table; this is particularly useful

\* if you reuse instances of this class.

\*

\* <P>Iterators generated by this map will enumerate pairs in the same order in which they

\* have been added to the map (addition of pairs whose key is already present

\* in the set does not change the iteration order). Note that this order has

nothing in common with the natural

\* order of the keys. The order is kept by means of a doubly linked list, represented

\* <i>via</i> an array of longs parallel to the table.

\*

\* <P>This class implements the interface of a sorted map, so to allow easy

\* access of the iteration order: for instance, you can get the first key

\* in iteration order with { @code firstKey() } without having to create an

\* iterator; however, this class partially violates the { @link java.util.SortedMap }

\* contract because all submap methods throw an exception and { @link

\* #comparator() } returns always <code>null</code>.

\*

\* <p>Additional methods, such as <code>getAndMoveToFirst()</code>, make it easy

\* to use instances of this class as a cache (e.g., with LRU policy).

\*

\* <P>The iterators provided by the views of this class using are type-specific

\* { @linkplain java.util.ListIterator list iterators }, and can be started at any

\* element <em>which is a key of the map</em>, or

\* a { @link NoSuchElementException }

exception will be thrown.

\* If, however, the provided element is not the first or last key in the

\* set, the first access to the list index will require linear time, as in the worst case

\* the entire key set must be scanned in iteration order to retrieve the positional

\* index of the starting key. If you use just the methods of a type-specific { @link

it.unimi.dsi.fastutil.BidirectionalIterator },

\* however, all operations will be performed in constant time.

\*

```
* @see Hash
* @see HashCommon
*/
```

```
public class OPEN_HASH_MAP KEY_VALUE_GENERIC extends ABSTRACT_SORTED_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable, Hash {
```

```
#else
```

```
#ifdef Custom
```

```
/** A type-specific hash map with a fast, small-footprint implementation whose { @linkplain
it.unimi.dsi.fastutil.Hash.Strategy hashing strategy }
```

```
* is specified at creation time.
```

```
*
```

```
* <P>Instances of this class use a hash table to represent a map. The table is
```

```
* filled up to a specified load factor, and
```

```
then doubled in size to
```

```
* accommodate new entries. If the table is emptied below one fourth
```

```
* of the load factor, it is halved in size. However, halving is
```

```
* not performed when deleting entries from an iterator, as it would interfere
```

```
* with the iteration process.
```

```
*
```

```
* <p>Note that { @link #clear() } does not modify the hash table size.
```

```
* Rather, a family of { @linkplain #trim() trimming
```

```
* methods } lets you control the size of the table; this is particularly useful
```

```
* if you reuse instances of this class.
```

```
*
```

```
* @see Hash
```

```
* @see HashCommon
```

```
*/
```

```
public class OPEN_HASH_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable, Hash {
```

```
#else
```

```
/** A type-specific hash map with a fast, small-footprint implementation.
```

```
*
```

```
* <P>Instances of this class use a hash table to represent a map. The table is
```

```
* filled up to a specified load factor, and then doubled in size to
```

```
* accommodate new entries. If the table is emptied below
```

```
one fourth
```

```
* of the load factor, it is halved in size. However, halving is
```

```
* not performed when deleting entries from an iterator, as it would interfere
```

```
* with the iteration process.
```

```
*
```

```
* <p>Note that { @link #clear() } does not modify the hash table size.
```



```

* Rather, a family of { @linkplain #trim() trimming
* methods } lets you control the size of the table; this is particularly useful
* if you reuse instances of this class.
*
* @see Hash
* @see HashCommon
*/

```

```

public class OPEN_HASH_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable, Hash {

```

```

#endif

```

```

#endif

```

```

 private static final long serialVersionUID = 0L;
 private static final boolean ASSERTS = ASSERTS_VALUE;

```

```

/** The array of keys. */
protected transient KEY_GENERIC_TYPE[] key;

```

```

/** The array of values. */
protected transient VALUE_GENERIC_TYPE[] value;

```

```

/** The mask for wrapping a position counter. */
protected transient int mask;

```

```

/** Whether this set
contains the key zero. */
protected transient boolean containsNullKey;

```

```

#ifdef Custom

```

```

/** The hash strategy of this custom map. */
protected STRATEGY KEY_GENERIC strategy;
#endif

```

```

#ifdef Linked

```

```

/** The index of the first entry in iteration order. It is valid iff { @link #size } is nonzero; otherwise, it contains -1. */
protected transient int first = -1;

```

```

/** The index of the last entry in iteration order. It is valid iff { @link #size } is nonzero; otherwise, it contains -1. */
protected transient int last = -1;

```

```

/** For each entry, the next and the previous entry in iteration order,
* stored as <code>((prev & 0xFFFFFFFFL) << 32) | (next & 0xFFFFFFFFL)</code>.

```

```

* The first entry contains predecessor -1, and the last entry

```

```

* contains successor -1. */

```

```

protected transient long[] link;

```

```

#endif

```

```

/** The current table size. */
protected transient int n;

/** Threshold after which we rehash. It must be the table size times {@link #f}. */
protected transient int maxFill;

/**
Number of entries in the set (including the key zero, if present). */
protected int size;

/** The acceptable load factor. */
protected final float f;

#ifdef Linked
/** Cached set of entries. */
protected transient volatile FastSortedEntrySet KEY_VALUE_GENERIC entries;

/** Cached set of keys. */
protected transient volatile SORTED_SET KEY_GENERIC keys;
#else
/** Cached set of entries. */
protected transient volatile FastEntrySet KEY_VALUE_GENERIC entries;

/** Cached set of keys. */
protected transient volatile SET KEY_GENERIC keys;
#endif

/** Cached collection of values. */
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

#ifdef Custom
/** Creates a new hash map.
*
* <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.
*
* @param expected the expected number of elements in the hash set.
* @param f the load factor.
* @param strategy the strategy.
*/
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public
OPEN_HASH_MAP(final int expected, final float f, final STRATEGY KEY_GENERIC strategy) {
 this.strategy = strategy;
}
#else
/** Creates a new hash map.
*
* <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.

```

```

*
* @param expected the expected number of elements in the hash set.
* @param f the load factor.
*/
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public OPEN_HASH_MAP(final int expected, final float f) {
#endef
 if (f <= 0 || f > 1) throw new IllegalArgumentException("Load factor must be greater than 0 and smaller than or
equal to 1");
 if (expected < 0) throw new IllegalArgumentException("The expected number of elements must be nonnegative"
);

 this.f = f;

 n = arraySize(expected, f);
 mask = n - 1;
 maxFill = maxFill(n, f);
 key = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[n + 1];
 value = VALUE_GENERIC_ARRAY_CAST new VALUE_TYPE[n + 1];
#ifdef Linked
 link = new long[
n + 1];
#endif
}

#ifdef Custom
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
*
* @param expected the expected number of elements in the hash map.
* @param strategy the strategy.
*/

public OPEN_HASH_MAP(final int expected, final STRATEGY KEY_GENERIC strategy) {
 this(expected, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
*
* @param expected the expected number of elements in the hash map.
*/

public OPEN_HASH_MAP(final int expected) {
 this(expected, DEFAULT_LOAD_FACTOR);
}
#endef

```

```

#ifdef Custom
/** Creates a new hash map with initial expected { @link Hash#DEFAULT_INITIAL_SIZE} entries
 * and { @link Hash#DEFAULT_LOAD_FACTOR} as load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_MAP(final STRATEGY KEY_GENERIC strategy) {
 this(DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new
hash map with initial expected { @link Hash#DEFAULT_INITIAL_SIZE} entries
 * and { @link Hash#DEFAULT_LOAD_FACTOR} as load factor.
 */

public OPEN_HASH_MAP() {
 this(DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR);
}
#endif

```

```

#ifdef Custom
/** Creates a new hash map copying a given one.
 *
 * @param m a { @link Map} to be copied into the new hash map.
 * @param f the load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_MAP(final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m, final float f, final STRATEGY KEY_GENERIC strategy) {
 this(m.size(), f, strategy);
 putAll(m);
}
#else
/** Creates a new hash map copying a given one.
 *
 * @param m a { @link Map} to be copied into the new hash map.
 * @param f the load factor.
 */

public OPEN_HASH_MAP(final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m, final float f) {
 this(m.size(), f);
 putAll(m);
}
#endif

```

```

#ifdef Custom
/** Creates a new hash map
with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor copying a given one.
*
* @param m a {@link Map} to be copied into the new hash map.
* @param strategy the strategy.
*/

public OPEN_HASH_MAP(final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m, final STRATEGY KEY_GENERIC strategy) {
 this(m, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new hash map with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor copying a given one.
*
* @param m a {@link Map} to be copied into the new hash map.
*/

public OPEN_HASH_MAP(final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m) {
 this(m, DEFAULT_LOAD_FACTOR);
}
#endif

#ifdef Custom
/** Creates a new hash map copying a given type-specific one.
*
* @param m a type-specific map to be copied into the new hash map.
* @param f the load factor.
* @param strategy the strategy.
*/

public OPEN_HASH_MAP(final MAP KEY_VALUE_GENERIC m, final float f, final STRATEGY
KEY_GENERIC strategy) {
 this(m.size(), f, strategy);
 putAll(m);
}
#else
/** Creates a new hash map copying a given type-specific one.
*
* @param m a type-specific map to be copied into the new hash map.
* @param f the load factor.
*/

public OPEN_HASH_MAP(final MAP KEY_VALUE_GENERIC m, final float f) {
 this(m.size(), f);
 putAll(m);
}

```

```

#endif

#ifdef Custom
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor copying a given type-
specific one.
*
* @param m a type-specific map to be copied into the new hash map.
* @param strategy the strategy.
*/

public OPEN_HASH_MAP(final MAP KEY_VALUE_GENERIC m, final STRATEGY KEY_GENERIC strategy
) {
 this(m, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor copying a given type-
specific one.
*
* @param m a type-specific map to be copied into the new hash map.
*/

public OPEN_HASH_MAP(final
MAP KEY_VALUE_GENERIC m) {
 this(m, DEFAULT_LOAD_FACTOR);
}
#endif

```

```

#ifdef Custom
/** Creates a new hash map using the elements of two parallel arrays.
*
* @param k the array of keys of the new hash map.
* @param v the array of corresponding values in the new hash map.
* @param f the load factor.
* @param strategy the strategy.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

public OPEN_HASH_MAP(final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE[] v, final float f,
final STRATEGY KEY_GENERIC strategy) {
 this(k.length, f, strategy);
 if (k.length != v.length) throw new IllegalArgumentException("The key array and the value array have different
lengths (" + k.length + " and " + v.length + "));
 for(int i = 0; i < k.length; i++) this.put(k[i], v[i]);
}
#else
/** Creates a new hash map using the elements of two parallel arrays.
*

```

```

* @param k the array of keys of the new hash map.
* @param
v the array of corresponding values in the new hash map.
* @param f the load factor.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

public OPEN_HASH_MAP(final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE[] v, final float f) {
 this(k.length, f);
 if (k.length != v.length) throw new IllegalArgumentException("The key array and the value array have different
lengths (" + k.length + " and " + v.length + ")");
 for(int i = 0; i < k.length; i++) this.put(k[i], v[i]);
}
#endif

#ifdef Custom
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor using the elements of
two parallel arrays.
*
* @param k the array of keys of the new hash map.
* @param v the array of corresponding values in the new hash map.
* @param strategy the strategy.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

public OPEN_HASH_MAP(final KEY_GENERIC_TYPE[]
k, final VALUE_GENERIC_TYPE[] v, final STRATEGY KEY_GENERIC strategy) {
 this(k, v, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new hash map with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor using the elements of
two parallel arrays.
*
* @param k the array of keys of the new hash map.
* @param v the array of corresponding values in the new hash map.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

public OPEN_HASH_MAP(final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE[] v) {
 this(k, v, DEFAULT_LOAD_FACTOR);
}
#endif

#ifdef Custom
/** Returns the hashing strategy.
*

```

```

* @return the hashing strategy of this custom hash map.
*/

public STRATEGY KEY_GENERIC strategy() {
 return strategy;
}
#endif

private int realSize() {
 return containsNullKey ? size - 1 : size;
}

private void ensureCapacity(final int capacity) {
 final int needed = arraySize(capacity, f);
 if (
 needed > n) rehash(needed);
}

private void tryCapacity(final long capacity) {
 final int needed = (int)Math.min(1 << 30, Math.max(2, HashCommon.nextPowerOfTwo((long)Math.ceil(capacity
/ f))));
 if (needed > n) rehash(needed);
}

private VALUE_GENERIC_TYPE removeEntry(final int pos) {
 final VALUE_GENERIC_TYPE oldValue = value[pos];
#ifdef #values(reference)
 value[pos] = null;
#endif
 size--;
#ifdef Linked
 fixPointers(pos);
#endif
 shiftKeys(pos);
 if (size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
 return oldValue;
}

private VALUE_GENERIC_TYPE removeNullEntry() {
 containsNullKey = false;
#ifdef #keys(reference)
 key[n] = null;
#endif
 final VALUE_GENERIC_TYPE oldValue = value[n];
#ifdef #values(reference)
 value[n] = null;
#endif
}

```



```

size--;
#ifdef Linked
 fixPointers(n);
#endif
if (size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
return oldValue;
}

/** {@inheritDoc} */
public void putAll(Map<?
extends KEY_GENERIC_CLASS,? extends VALUE_GENERIC_CLASS> m) {
 if (f <= .5) ensureCapacity(m.size()); // The resulting map will be sized for m.size() elements
 else tryCapacity(size() + m.size()); // The resulting map will be tentatively sized for size() + m.size() elements
 super.putAll(m);
}

private int insert(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 int pos;

 if (KEY_EQUALS_NULL(k)) {
 if (containsNullKey) return n;
 containsNullKey = true;
 pos = n;
 }
 else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;

 // The starting point.
 if (! KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) {
 if (KEY_EQUALS_NOT_NULL(curr, k)) return pos;
 while(! KEY_IS_NULL(curr = key[pos = (pos + 1) & mask]))
 if (KEY_EQUALS_NOT_NULL(curr, k)) return pos;
 }
 }

 key[pos] = k;
 value[pos] = v;
#ifdef Linked
 if (size == 0) {
 first = last = pos;
 // Special case of
 SET_UPPER_LOWER(link[pos], -1, -1);
 link[pos] = -1L;
 }
 else {
 SET_NEXT(link[last], pos);
 }
}

```

```

 SET_UPPER_LOWER(link[pos], last, -1);
 last = pos;
}
#endif

if (size++ >= maxFill) rehash(arraySize(size + 1, f));
if (ASSERTS) checkTable();
return -1;
}

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 final int pos = insert(k, v);
 if (pos < 0) return defRetVal;
 final VALUE_GENERIC_TYPE oldValue = value[pos];
 value[pos] = v;
 return oldValue;
}

#if #values(primitive) || #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov)
{
 final VALUE_GENERIC_TYPE v = VALUE_CLASS2TYPE(ov);

 final int pos = insert(KEY_CLASS2TYPE(ok), v);
 if (pos < 0) return OBJECT_DEFAULT_RETURN_VALUE;
 final VALUE_GENERIC_TYPE oldValue
= value[pos];
 value[pos] = v;
 return VALUE2OBJ(oldValue);
}
#endif

#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Char) || #valueclass(Integer) || #valueclass(Long) ||
#valueclass(Float) || #valueclass(Double)

private VALUE_GENERIC_TYPE addToValue(final int pos, final VALUE_GENERIC_TYPE incr) {
 final VALUE_GENERIC_TYPE oldValue = value[pos];
 #if #valueclass(Byte) || #valueclass(Short) || #valueclass(Char)
 value[pos] = (VALUE_TYPE)(oldValue + incr);
 #else
 value[pos] = oldValue + incr;
 #endif
}

```

```

#endif
 return oldValue;
}

/** Adds an increment to value currently associated with a key.
 *
 * <P>Note that this method respects the { @linkplain #defaultReturnValue() default return value } semantics: when
 * called with a key that does not currently appears in the map, the key
 * will be associated with the default return value plus
 * the given increment.
 *
 * @param k the key.
 * @param incr the increment.
 * @return the old value, or the
 * { @linkplain #defaultReturnValue() default return value } if no value was present for the given key.
 */
public VALUE_GENERIC_TYPE addTo(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE incr) {
 int pos;

 if (KEY_EQUALS_NULL(k)) {
 if (containsNullKey) return addToValue(n, incr);
 pos = n;
 containsNullKey = true;
 }
 else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;

 // The starting point.
 if (! KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) {
 if (KEY_EQUALS_NOT_NULL(curr, k)) return addToValue(pos, incr);
 while (! KEY_IS_NULL(curr = key[pos = (pos + 1) & mask]))
 if (KEY_EQUALS_NOT_NULL(curr, k)) return addToValue(pos, incr);
 }
 }

 key[pos] = k;

 #if #valueclass(Byte) || #valueclass(Short) || #valueclass(Char)
 value[pos] = (VALUE_TYPE)(defRetVal + incr);
 #else
 value[pos] = defRetVal + incr;
 #endif

 #ifdef Linked
 if (size == 0) {
 first = last = pos;
 }
 //

```

```

Special case of SET_UPPER_LOWER(link[pos], -1, -1);
 link[pos] = -1L;
}
else {
 SET_NEXT(link[last], pos);
 SET_UPPER_LOWER(link[pos], last, -1);
 last = pos;
}
#endif

if (size++ >= maxFill) rehash(arraySize(size + 1, f));
if (ASSERTS) checkTable();
return defRetVal;
}

#endif

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
protected final void shiftKeys(int pos) {
 // Shift entries with the same hash.
 int last, slot;
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;

 for(;;) {
 pos = ((last = pos) + 1) & mask;

 for(;;) {
 if (KEY_IS_NULL(curr = key[pos])) {
 key[last] = KEY_NULL;
 #if #values(reference)
 value[last] = null;
 #endif
 }
 return;
 }
 slot = KEY2INTHASH(curr) & mask;
 if (last <= pos ? last >= slot || slot > pos : last >= slot
 && slot > pos) break;
 pos = (pos + 1) & mask;
 }

 key[last] = curr;
 value[last] = value[pos];
}
#endif

```

```

 fixPointers(pos, last);
#endif
}
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE REMOVE_VALUE(final KEY_TYPE k) {
 if (KEY_EQUALS_NULL(KEY_GENERIC_CAST k)) {
 if (containsNullKey) return removeNullEntry();
 return defRetValue;
 }

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH_CAST(k) & mask])) return defRetValue;
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return removeEntry(pos);
 while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return defRetValue;
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return removeEntry(pos);
 }
}

#if #keys(primitive) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead.
 */
@Deprecated
@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS remove(final Object ok) {
 final KEY_GENERIC_TYPE k = KEY_GENERIC_CAST KEY_OBJ2TYPE(ok);
 if (KEY_EQUALS_NULL(k)) {
 if (containsNullKey) return VALUE2OBJ(removeNullEntry());
 return OBJECT_DEFAULT_RETURN_VALUE;
 }

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) return
OBJECT_DEFAULT_RETURN_VALUE;

```

```

if (KEY_EQUALS_NOT_NULL(curr, k)) return VALUE2OBJ(removeEntry(pos));
while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return OBJECT_DEFAULT_RETURN_VALUE;
 if (KEY_EQUALS_NOT_NULL(curr, k)) return VALUE2OBJ(removeEntry(pos));
}
}
#endif

```

```

#ifndef Linked

```

```

private VALUE_GENERIC_TYPE setValue(final int pos, final VALUE_GENERIC_TYPE v) {
 final VALUE_GENERIC_TYPE oldValue = value[pos];
 value[pos] = v;
 return
oldValue;
}

```

```

/** Removes the mapping associated with the first key in iteration order.
 * @return the value previously associated with the first key in iteration order.
 * @throws NoSuchElementException is this map is empty.
 */

```

```

public VALUE_GENERIC_TYPE REMOVE_FIRST_VALUE() {
 if (size == 0) throw new NoSuchElementException();
 final int pos = first;
 // Abbreviated version of fixPointers(pos)
 first = GET_NEXT(link[pos]);
 if (0 <= first) {
 // Special case of SET_PREV(link[first], -1)
 link[first] |= (-1 & 0xFFFFFFFFL) << 32;
 }
 size--;
 final VALUE_GENERIC_TYPE v = value[pos];
 if (pos == n) {
 containsNullKey = false;
#ifdef #keys(reference)
 key[n] = null;
#endif
#ifdef #values(reference)
 value[n] = null;
#endif
 }
 else shiftKeys(pos);
 if (size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
 return v;
}

```

```

/** Removes the mapping associated with the last key in iteration order.

```

```

* @return the value previously
associated with the last key in iteration order.
* @throws NoSuchElementException is this map is empty.
*/
public VALUE_GENERIC_TYPE REMOVE_LAST_VALUE() {
 if (size == 0) throw new NoSuchElementException();
 final int pos = last;
 // Abbreviated version of fixPointers(pos)
 last = GET_PREV(link[pos]);
 if (0 <= last) {
 // Special case of SET_NEXT(link[last], -1)
 link[last] |= -1 & 0xFFFFFFFFFL;
 }
 size--;
 final VALUE_GENERIC_TYPE v = value[pos];
 if (pos == n) {
 containsNullKey = false;
#ifdef #keys(reference)
 key[n] = null;
#endif
#ifdef #values(reference)
 value[n] = null;
#endif
 }
 else shiftKeys(pos);
 if (size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
 return v;
}

private void moveIndexToFirst(final int i) {
 if (size == 1 || first == i) return;
 if (last == i) {
 last = GET_PREV(link[i]);
 // Special case of SET_NEXT(link[last], -1);
 link[last] |= -1 & 0xFFFFFFFFFL;
 }
 else {
 final
long linki = link[i];
 final int prev = GET_PREV(linki);
 final int next = GET_NEXT(linki);
 COPY_NEXT(link[prev], linki);
 COPY_PREV(link[next], linki);
 }
 SET_PREV(link[first], i);
 SET_UPPER_LOWER(link[i], -1, first);
 first = i;
}

```

```

private void moveIndexToLast(final int i) {
 if (size == 1 || last == i) return;
 if (first == i) {
 first = GET_NEXT(link[i]);
 // Special case of SET_PREV(link[first], -1);
 link[first] |= (-1 & 0xFFFFFFFFL) << 32;
 }
 else {
 final long linki = link[i];
 final int prev = GET_PREV(linki);
 final int next = GET_NEXT(linki);
 COPY_NEXT(link[prev], linki);
 COPY_PREV(link[next], linki);
 }
 SET_NEXT(link[last], i);
 SET_UPPER_LOWER(link[i], last, -1);
 last = i;
}

/** Returns the value to which the given key is mapped; if the key is present, it is moved to the first position of the
iteration order.
*
* @param k the key.
* @return the corresponding value, or the
{@link plain #defaultReturnValue() default return value} if no value was present for the given key.
*/
public VALUE_GENERIC_TYPE getAndMoveToFirst(final KEY_GENERIC_TYPE k) {
 if (KEY_EQUALS_NULL(k)) {
 if (containsNullKey) {
 moveIndexToFirst(n);
 return value[n];
 }

 return defRetVal;
 }

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) return defRetVal;
 if (KEY_EQUALS_NOT_NULL(k, curr)) {
 moveIndexToFirst(pos);
 return value[pos];
 }
}

```



```

// There's always an unused entry.
while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return defRetVal;
 if (KEY_EQUALS_NOT_NULL(k, curr)) {
 moveIndexToFirst(pos);
 return value[pos];
 }
}

/** Returns the value to which the given key is mapped; if the key is present, it is moved to the last position of the
iteration
order.
*
* @param k the key.
* @return the corresponding value, or the {@linkplain #defaultReturnValue() default return value} if no value was
present for the given key.
*/
public VALUE_GENERIC_TYPE getAndMoveToLast(final KEY_GENERIC_TYPE k) {
 if (KEY_EQUALS_NULL(k)) {
 if (containsNullKey) {
 moveIndexToLast(n);
 return value[n];
 }

 return defRetVal;
 }

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) return defRetVal;
 if (KEY_EQUALS_NOT_NULL(k, curr)) {
 moveIndexToLast(pos);
 return value[pos];
 }

 // There's always an unused entry.
 while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return defRetVal;
 if (KEY_EQUALS_NOT_NULL(k, curr)) {
 moveIndexToLast(pos);
 return value[pos];
 }
 }
}

```

```

/** Adds a pair to the map; if the key is already present,
it is moved to the first position of the iteration order.
*
* @param k the key.
* @param v the value.
* @return the old value, or the { @linkplain #defaultReturnValue() default return value } if no value was present for
the given key.
*/
public VALUE_GENERIC_TYPE putAndMoveToFirst(final KEY_GENERIC_TYPE k, final
VALUE_GENERIC_TYPE v) {
 int pos;

 if (KEY_EQUALS_NULL(k)) {
 if (containsNullKey) {
 moveIndexToFirst(n);
 return setValue(n, v);
 }
 containsNullKey = true;
 pos = n;
 }
 else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;

 // The starting point.
 if (! KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) {
 if (KEY_EQUALS_NOT_NULL(curr, k)) {
 moveIndexToFirst(pos);
 return setValue(pos, v);
 }
 while (! KEY_IS_NULL(curr = key[pos = (pos + 1) & mask]))
 if (KEY_EQUALS_NOT_NULL(curr, k)) {
 moveIndexToFirst(pos);
 return setValue(pos, v);
 }
 }
 }

 key[pos] = k;
 value[pos] = v;

 if (size == 0) {
 first = last = pos;
 // Special case of SET_UPPER_LOWER(link[pos], -1, -1);
 link[pos] = -1L;
 }
}

```

```

else {
 SET_PREV(link[first], pos);
 SET_UPPER_LOWER(link[pos], -1, first);
 first = pos;
}

if (size++ >= maxFill) rehash(arraySize(size, f));
if (ASSERTS) checkTable();
return defRetVal;
}

/** Adds a pair to the map; if the key is already present, it is moved to the last position of the iteration order.
 *
 * @param k the key.
 * @param v the value.
 * @return the old value, or the { @linkplain #defaultReturnValue() default return value } if no value was present for
the given key.
 */
public VALUE_GENERIC_TYPE putAndMoveToLast(final KEY_GENERIC_TYPE k, final
VALUE_GENERIC_TYPE v) {
 int pos;

 if (KEY_EQUALS_NULL(k)) {
 if (containsNullKey) {
 moveIndexToLast(n);
 return setValue(n, v);
 }
 containsNullKey = true;
 pos = n;
 }
 else
 {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;

 // The starting point.
 if (! KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) {
 if (KEY_EQUALS_NOT_NULL(curr, k)) {
 moveIndexToLast(pos);
 return setValue(pos, v);
 }
 while(! KEY_IS_NULL(curr = key[pos = (pos + 1) & mask]))
 if (KEY_EQUALS_NOT_NULL(curr, k)) {
 moveIndexToLast(pos);
 return setValue(pos, v);
 }
 }
 }
}

```

```

key[pos] = k;
value[pos] = v;

if (size == 0) {
 first = last = pos;
 // Special case of SET_UPPER_LOWER(link[pos], -1, -1);
 link[pos] = -1L;
}
else {
 SET_NEXT(link[last], pos);
 SET_UPPER_LOWER(link[pos], last, -1);
 last = pos;
}

if (size++ >= maxFill) rehash(arraySize(size, f));
if (ASSERTS) checkTable();
return defRetVal;
}

#endif

#if #keys(primitive)

public VALUE_GENERIC_CLASS get(final KEY_CLASS ok) {
 final KEY_GENERIC_TYPE
 k = KEY_CLASS2TYPE(ok);
 if (KEY_EQUALS_NULL(k)) return containsNullKey ? VALUE2OBJ(value[n]) :
OBJECT_DEFAULT_RETURN_VALUE;

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) return
OBJECT_DEFAULT_RETURN_VALUE;
 if (KEY_EQUALS_NOT_NULL(k, curr)) return VALUE2OBJ(value[pos]);

 // There's always an unused entry.
 while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return OBJECT_DEFAULT_RETURN_VALUE;
 if (KEY_EQUALS_NOT_NULL(k, curr)) return VALUE2OBJ(value[pos]);
 }
}

#endif

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) {
 if (KEY_EQUALS_NULL(KEY_GENERIC_CAST k)) return containsNullKey ? value[n] : defRetVal;

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos
= KEY2INTHASH_CAST(k) & mask])) return defRetVal;
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return value[pos];
 // There's always an unused entry.
 while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return defRetVal;
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return value[pos];
 }
}

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey(final KEY_TYPE k) {
 if (KEY_EQUALS_NULL(KEY_GENERIC_CAST k)) return containsNullKey;

```

```

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH_CAST(k) & mask])) return false;
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return true;
 // There's always an unused entry.
 while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return false;
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return true;
 }
}

```

```

public boolean containsValue(final VALUE_TYPE v) {
 final
 VALUE_GENERIC_TYPE value[] = this.value;
 final KEY_GENERIC_TYPE key[] = this.key;
 if (containsNullKey && VALUE_EQUALS(value[n], v)) return true;
 for(int i = n; i-- != 0;) if (! KEY_IS_NULL(key[i]) && VALUE_EQUALS(value[i], v)) return true;
 return false;
}

```

```

/* Removes all elements from this map.

```

```

*
* <P>To increase object reuse, this method does not change the table size.
* If you want to reduce the table size, you must use { @link #trim()}.
*
*/
public void clear() {
 if (size == 0) return;
 size = 0;
 containsNullKey = false;

 Arrays.fill(key, KEY_NULL);
#if #values(reference)
 Arrays.fill(value, null);
#endif

#ifdef Linked
 first = last = -1;
#endif
}

public int size() {
 return size;
}

public boolean isEmpty() {
 return size == 0;
}

/** A no-op for backward compatibility.
*
* @param growthFactor unused.
* @deprecated Since <code>fastutil</code> 6.1.0, hash tables are doubled when they are too full.
*/
@Deprecated
public
void growthFactor(int growthFactor) {}

/** Gets the growth factor (2).
*
* @return the growth factor of this set, which is fixed (2).
* @see #growthFactor(int)
* @deprecated Since <code>fastutil</code> 6.1.0, hash tables are doubled when they are too full.
*/
@Deprecated
public int growthFactor() {
 return 16;
}

```

```
}
```

```
/** The entry class for a hash map does not record key and value, but
 * rather the position in the hash table of the corresponding entry. This
 * is necessary so that calls to {@link java.util.Map.Entry#setValue(Object)} are reflected in
 * the map */
```

```
final class MapEntry implements MAP.Entry KEY_VALUE_GENERIC, Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS> {
```

```
 // The table index this entry refers to, or -1 if this entry has been deleted.
 int index;
```

```
 MapEntry(final int index) {
 this.index = index;
 }
```

```
 MapEntry() {}
```

```
#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific
 method instead. */
```

```
 @Deprecated
```

```
#endif
```

```
 public KEY_GENERIC_CLASS getKey() {
 return KEY2OBJ(key[index]);
 }
```

```
#if #keys(primitive)
```

```
 public KEY_TYPE ENTRY_GET_KEY() {
 return key[index];
 }
```

```
#endif
```

```
#if #values(primitive)
```

```
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
```

```
#endif
```

```
 public VALUE_GENERIC_CLASS getValue() {
 return VALUE2OBJ(value[index]);
 }
```

```
#if #values(primitive)
```

```
 public VALUE_GENERIC_TYPE ENTRY_GET_VALUE() {
 return value[index];
 }
```

```

#endif

public VALUE_GENERIC_TYPE setValue(final VALUE_GENERIC_TYPE v) {
 final VALUE_GENERIC_TYPE oldValue = value[index];
 value[index] = v;
 return oldValue;
}

#if #values(primitive)

public VALUE_GENERIC_CLASS setValue(final VALUE_GENERIC_CLASS v) {
 return VALUE2OBJ(setValue(VALUE_CLASS2TYPE(v)));
}

#endif

@SuppressWarnings("unchecked")
public boolean equals(final Object o) {
 if (!(o instanceof
Map.Entry)) return false;
 Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>)o;

 return KEY_EQUALS(key[index], KEY_CLASS2TYPE(e.getKey())) && VALUE_EQUALS(value[index],
VALUE_CLASS2TYPE(e.getValue()));
}

public int hashCode() {
 return KEY2JAVAHASH(key[index]) ^ VALUE2JAVAHASH(value[index]);
}

public String toString() {
 return key[index] + "=>" + value[index];
}
}

#ifdef Linked

/** Modifies the { @link #link } vector so that the given entry is removed.
 * This method will complete in constant time.
 *
 * @param i the index of an entry.
 */
protected void fixPointers(final int i) {
 if (size == 0) {
 first = last = -1;
 }
}

```



```

return;
}
if (first == i) {
first = GET_NEXT(link[i]);
if (0 <= first) {
// Special case of SET_PREV(link[first], -1)
link[first] |= (-1 & 0xFFFFFFFFL) << 32;
}
return;
}
if (last == i)
{
last = GET_PREV(link[i]);
if (0 <= last) {
// Special case of SET_NEXT(link[last], -1)
link[last] |= -1 & 0xFFFFFFFFL;
}
return;
}
}
final long linki = link[i];
final int prev = GET_PREV(linki);
final int next = GET_NEXT(linki);
COPY_NEXT(link[prev], linki);
COPY_PREV(link[next], linki);
}

/** Modifies the { @link #link } vector for a shift from s to d.
 * <P>This method will complete in constant time.
 *
 * @param s the source position.
 * @param d the destination position.
 */
protected void fixPointers(int s, int d) {
if (size == 1) {
first = last = d;
// Special case of SET_UPPER_LOWER(link[d], -1, -1)
link[d] = -1L;
return;
}
if (first == s) {
first = d;
SET_PREV(link[GET_NEXT(link[s])], d);
link[d] = link[s];
return;
}
if (last == s) {
last = d;

```

```

 SET_NEXT(link[GET_PREV(link[s])], d);
 link[d] = link[s];
 return;
}
final long links = link[s];
final
int prev = GET_PREV(links);
final int next = GET_NEXT(links);
SET_NEXT(link[prev], d);
SET_PREV(link[next], d);
link[d] = links;
}

/** Returns the first key of this map in iteration order.
 *
 * @return the first key in iteration order.
 */
public KEY_GENERIC_TYPE FIRST_KEY() {
 if (size == 0) throw new NoSuchElementException();
 return key[first];
}

/** Returns the last key of this map in iteration order.
 *
 * @return the last key in iteration order.
 */
public KEY_GENERIC_TYPE LAST_KEY() {
 if (size == 0) throw new NoSuchElementException();
 return key[last];
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

public SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_GENERIC_TYPE from) { throw new
UnsupportedOperationException(); }
public SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_GENERIC_TYPE to) { throw new
UnsupportedOperationException(); }
public SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE
to) { throw new UnsupportedOperationException(); }

/** A list iterator over a linked map.
 *
 * <P>This class provides a list iterator over a linked hash map. The constructor runs in constant time.
 */

```

```

private class MapIterator {
 /** The entry that will be returned by the next call to {@link java.util.ListIterator#previous()} (or
<code>null</code> if no previous entry exists). */
 int prev = -1;
 /** The entry that will be returned by the next call to {@link java.util.ListIterator#next()} (or <code>null</code> if
no next entry exists). */
 int next = -1;
 /** The last entry that was returned (or -1 if we did not iterate or used {@link java.util.Iterator#remove()}). */
 int curr = -1;
 /** The current index (in the sense of a {@link java.util.ListIterator}). Note that this value is not meaningful when
this iterator has been created using the nonempty constructor.*/
 int index = -1;

 private MapIterator() {
 next = first;
 index = 0;
 }

 private MapIterator(
final KEY_GENERIC_TYPE from) {
 if (KEY_EQUALS_NULL(from)) {
 if (OPEN_HASH_MAP.this.containsNullKey) {
 next = GET_NEXT(link[n]);
 prev = n;
 return;
 }
 else throw new NoSuchElementException("The key " + from + " does not belong to this map.");
 }

 if (KEY_EQUALS(key[last], from)) {
 prev = last;
 index = size;
 return;
 }

 // The starting point.
 int pos = KEY2INTHASH(from) & mask;

 // There's always an unused entry.
 while(! KEY_IS_NULL(key[pos])) {
 if (KEY_EQUALS_NOT_NULL(key[pos], from)) {
 // Note: no valid index known.
 next = GET_NEXT(link[pos]);
 prev = pos;
 return;
 }
 pos = (pos + 1) & mask;
 }

```

```

throw new NoSuchElementException("The key " + from + " does not belong to this map.");
}

public boolean hasNext() { return next != -1; }
public boolean hasPrevious() { return prev != -1; }

private final void ensureIndexKnown() {
 if (index
 >= 0) return;
 if (prev == -1) {
 index = 0;
 return;
 }
 if (next == -1) {
 index = size;
 return;
 }
 int pos = first;
 index = 1;
 while(pos != prev) {
 pos = GET_NEXT(link[pos]);
 index++;
 }
}

public int nextIndex() {
 ensureIndexKnown();
 return index;
}

public int previousIndex() {
 ensureIndexKnown();
 return index - 1;
}

public int nextEntry() {
 if (! hasNext()) throw new NoSuchElementException();

 curr = next;
 next = GET_NEXT(link[curr]);
 prev = curr;

 if (index >= 0) index++;

 return curr;
}

```

```

public int previousEntry() {
 if (! hasPrevious()) throw new NoSuchElementException();

 curr = prev;
 prev = GET_PREV(link[curr]);
 next = curr;

 if (index >= 0) index--;

 return curr;
}

public void remove() {
 ensureIndexKnown();
 if (curr == -1) throw new IllegalStateException();

 if (curr == prev) {
 /* If the last operation was a next(),
we are removing an entry that precedes
the current index, and thus we must decrement it. */
 index--;
 prev = GET_PREV(link[curr]);
 }
 else
 next = GET_NEXT(link[curr]);

 size--;
 /* Now we manually fix the pointers. Because of our knowledge of next
and prev, this is going to be faster than calling fixPointers(). */
 if (prev == -1) first = next;
 else
 SET_NEXT(link[prev], next);
 if (next == -1) last = prev;
 else
 SET_PREV(link[next], prev);

 int last, slot, pos = curr;
 curr = -1;

 if (pos == n) {
 OPEN_HASH_MAP.this.containsNullKey = false;
#ifdef #keys(reference)
 key[n] = null;
#endif
#ifdef #values(reference)
 value[n] = null;
#endif
 }
}

```

```

else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = OPEN_HASH_MAP.this.key;
 // We have to horribly duplicate the shiftKeys() code because we need to update next/prev.
 for(;;) {
 pos = ((last = pos) + 1) & mask;
 for(;;)
 {
 if (KEY_IS_NULL(curr = key[pos])) {
 key[last] = KEY_NULL;
#ifdef #values(reference)
 value[last] = null;
#endif
 return;
 }
 slot = KEY2INTHASH(curr) & mask;
 if (last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos) break;
 pos = (pos + 1) & mask;
 }

 key[last] = curr;
 value[last] = value[pos];
 if (next == pos) next = last;
 if (prev == pos) prev = last;
 fixPointers(pos, last);
}
}

public int skip(final int n) {
 int i = n;
 while(i-- != 0 && hasNext()) nextEntry();
 return n - i - 1;
}

public int back(final int n) {
 int i = n;
 while(i-- != 0 && hasPrevious()) previousEntry();
 return n - i - 1;
}

private class EntryIterator extends MapIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
 private MapEntry entry;

 public EntryIterator() { }

```

```

public EntryIterator(KEY_GENERIC_TYPE from) {
 super(
from);
}

public MapEntry next() {
 return entry = new MapEntry(nextEntry());
}

public MapEntry previous() {
 return entry = new MapEntry(previousEntry());
}

@Override
public void remove() {
 super.remove();
 entry.index = -1; // You cannot use a deleted entry.
}

public void set(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
public void add(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
}

private class FastEntryIterator extends MapIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
 final MapEntry entry = new MapEntry();

 public FastEntryIterator() {}

 public FastEntryIterator(KEY_GENERIC_TYPE from) {
 super(from);
 }

 public MapEntry next() {
 entry.index = nextEntry();
 return entry;
 }

 public MapEntry previous() {
 entry.index = previousEntry();
 return entry;
 }

 public void set(MAP.Entry KEY_VALUE_GENERIC ok) { throw
new UnsupportedOperationException(); }
 public void add(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
}

```

#else

/\*\* An iterator over a hash map. \*/

private class MapIterator {

/\*\* The index of the last entry returned, if positive or zero; initially, { @link #n }. If negative, the last entry returned was that of the key of index { @code - pos - 1 } from the { @link #wrapped } list. \*/

int pos = n;

/\*\* The index of the last entry that has been returned (more precisely, the value of { @link #pos } if { @link #pos } is positive,

or { @link Integer#MIN\_VALUE } if { @link #pos } is negative). It is -1 if either we did not return an entry yet, or the last returned entry has been removed. \*/

int last = -1;

/\*\* A downward counter measuring how many entries must still be returned. \*/

int c = size;

/\*\* A boolean telling us whether we should return the entry with the null key. \*/

boolean mustReturnNullKey = OPEN\_HASH\_MAP.this.containsNullKey;

/\*\*

A lazily allocated list containing keys of entries that have wrapped around the table because of removals. \*/

ARRAY\_LIST KEY\_GENERIC wrapped;

public boolean hasNext() {

return c != 0;

}

public int nextEntry() {

if ( ! hasNext() ) throw new NoSuchElementException();

c--;

if ( mustReturnNullKey ) {

mustReturnNullKey = false;

return last = n;

}

final KEY\_GENERIC\_TYPE key[] = OPEN\_HASH\_MAP.this.key;

for(;;) {

if ( --pos < 0 ) {

// We are just enumerating elements from the wrapped list.

last = Integer.MIN\_VALUE;

final KEY\_GENERIC\_TYPE k = wrapped.GET\_KEY( - pos - 1 );

int p = KEY2INTHASH( k ) & mask;

while ( ! KEY\_EQUALS\_NOT\_NULL( k, key[ p ] ) ) p = ( p + 1 ) & mask;

return p;

}

if ( ! KEY\_IS\_NULL( key[ pos ] ) ) return last = pos;

}

}



```

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
private final void shiftKeys(int pos) {
 // Shift entries with the same hash.
 int last, slot;
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = OPEN_HASH_MAP.this.key;

 for(;;) {
 pos = ((last = pos) + 1) & mask;

 for(;;) {
 if (KEY_IS_NULL(curr = key[pos])) {
 key[last] = KEY_NULL;
#ifdef values(reference)
 value[last] = null;
#endif
 return;
 }
 slot = KEY2INTHASH(curr) & mask;
 if (last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos) break;
 pos = (pos + 1) & mask;
 }

 if (pos < last) { // Wrapped entry.
 if (wrapped == null) wrapped = new ARRAY_LIST KEY_GENERIC(2);
 wrapped.add(key[pos]);
 }

 key[last] = curr;
 value[last] = value[pos];
 }
}

public void remove() {
 if (last == -1) throw new IllegalStateException();
 if (last == n) {
 containsNullKey = false;
#ifdef keys(reference)
 key[
n] = null;
#endif
#ifdef values(reference)

```

```

 value[n] = null;
#endif
}
else if (pos >= 0) shiftKeys(last);
else {
 // We're removing wrapped entries.
#if #keys(reference)
 OPEN_HASH_MAP.this.remove(wrapped.set(- pos - 1, null));
#else
 OPEN_HASH_MAP.this.remove(wrapped.GET_KEY(- pos - 1));
#endif
 last = -1; // Note that we must not decrement size
 return;
}

size--;
last = -1; // You can no longer remove this entry.
if (ASSERTS) checkTable();
}

public int skip(final int n) {
 int i = n;
 while(i-- != 0 && hasNext()) nextEntry();
 return n - i - 1;
}
}

private class EntryIterator extends MapIterator implements ObjectIterator<MAP.Entry KEY_VALUE_GENERIC>
{
 private MapEntry entry;

 public MAP.Entry KEY_VALUE_GENERIC next() {
 return entry = new MapEntry(nextEntry());
 }

 @Override
 public void remove() {
 super.remove();
 entry.index = -1; // You cannot use a deleted entry.
 }
}

private
class FastEntryIterator extends MapIterator implements ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> {
 private final MapEntry entry = new MapEntry();
 public MapEntry next() {
 entry.index = nextEntry();
 }
}

```

```

 return entry;
}
}

#endif

#ifdef Linked
private final class MapEntrySet extends AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>
implements FastSortedEntrySet KEY_VALUE_GENERIC {

 public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
 return new EntryIterator();
 }

 public Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator() { return null; }
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet(MAP.Entry KEY_VALUE_GENERIC
fromElement, MAP.Entry KEY_VALUE_GENERIC toElement) { throw new UnsupportedOperationException(); }
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet(MAP.Entry KEY_VALUE_GENERIC
toElement) { throw new UnsupportedOperationException(); }
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>
tailSet(MAP.Entry KEY_VALUE_GENERIC fromElement) { throw new UnsupportedOperationException(); }

 public MAP.Entry KEY_VALUE_GENERIC first() {
 if (size == 0) throw new NoSuchElementException();
 return new MapEntry(OPEN_HASH_MAP.this.first);
 }

 public MAP.Entry KEY_VALUE_GENERIC last() {
 if (size == 0) throw new NoSuchElementException();
 return new MapEntry(OPEN_HASH_MAP.this.last);
 }

}

#else
private final class MapEntrySet extends AbstractObjectSet<MAP.Entry KEY_VALUE_GENERIC> implements
FastEntrySet KEY_VALUE_GENERIC {

 public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
 return new EntryIterator();
 }

 public ObjectIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator() {
 return new FastEntryIterator();
 }
}

#endif

```

```

@SuppressWarnings("unchecked")
public boolean contains(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>)o;

 final KEY_GENERIC_TYPE k = KEY_CLASS2TYPE(e.getKey());

 if (KEY_EQUALS_NULL(k)) return (OPEN_HASH_MAP.this.containsNullKey && VALUE_EQUALS(
value[n], VALUE_CLASS2TYPE(e.getValue())));

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = OPEN_HASH_MAP.this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) return false;
 if (KEY_EQUALS_NOT_NULL(k, curr)) return VALUE_EQUALS(value[pos], VALUE_CLASS2TYPE(
e.getValue()));
 // There's always an unused entry.
 while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return false;
 if (KEY_EQUALS_NOT_NULL(k, curr)) return VALUE_EQUALS(value[pos], VALUE_CLASS2TYPE(
e.getValue()));
 }
}

@SuppressWarnings("unchecked")
public boolean remove(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS> e = (Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;

 final KEY_GENERIC_TYPE k = KEY_CLASS2TYPE(e.getKey());
 final VALUE_GENERIC_TYPE v = VALUE_CLASS2TYPE(e.getValue());

 if (KEY_EQUALS_NULL(k)) {
 if (containsNullKey && VALUE_EQUALS(value[n], v)) {
 removeNullEntry();
 return true;
 }
 return false;
 }

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = OPEN_HASH_MAP.this.key;

```

```

int pos;

// The starting point.
if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) return false;
if (KEY_EQUALS_NOT_NULL(curr, k)) {
 if (VALUE_EQUALS(value[pos], v)) {
 removeEntry(pos);
 return true;
 }
 return false;
}

while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return false;
 if (KEY_EQUALS_NOT_NULL(curr, k)) {
 if (VALUE_EQUALS(value[pos], v)) {
 removeEntry(pos);
 return true;
 }
 }
}

public int size() {
 return size;
}

public void clear() {
 OPEN_HASH_MAP.this.clear();
}

#ifdef Linked
 public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator(final MAP.Entry
 KEY_VALUE_GENERIC from) {
 #if #keys(primitive)
 return new EntryIterator(from.ENTRY_GET_KEY());
 #else
 return new EntryIterator(KEY_CLASS2TYPE(from.getKey()));
 #endif
 }

 public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator() {
 return new FastEntryIterator();
 }

 public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> fastIterator(final MAP.Entry
 KEY_VALUE_GENERIC from) {

```

```

#if #keys(primitive)
 return new FastEntryIterator(from.ENTRY_GET_KEY());
#else
 return new FastEntryIterator(KEY_CLASS2TYPE(from.getKey()));
#endif
}

#endif

#ifdef Linked
public FastSortedEntrySet KEY_VALUE_GENERIC ENTRYSET() {
 if (entries == null) entries = new MapEntrySet();
#else
public FastEntrySet KEY_VALUE_GENERIC
ENTRYSET() {
 if (entries == null) entries = new MapEntrySet();
#endif
 return entries;
}

/** An iterator on keys.
 *
 * <P>We simply override the { @link java.util.ListIterator#next()}/{ @link java.util.ListIterator#previous()}
methods
 * (and possibly their type-specific counterparts) so that they return keys
 * instead of entries.
 */

#ifdef Linked
private final class KeyIterator extends MapIterator implements KEY_LIST_ITERATOR KEY_GENERIC {
 public KeyIterator(final KEY_GENERIC_TYPE k) { super(k); }
 public KEY_GENERIC_TYPE PREV_KEY() { return key[previousEntry()]; }
 public void set(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
 public void add(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
#if ! #keys(reference)
 public KEY_GENERIC_CLASS previous() { return KEY2OBJ(key[previousEntry()]); }
 public void set(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
 public void add(KEY_CLASS
ok) { throw new UnsupportedOperationException(); }
#endif
#else
private final class KeyIterator extends MapIterator implements KEY_ITERATOR KEY_GENERIC {
#endif

```

```

public KeyIterator() { super(); }
public KEY_GENERIC_TYPE NEXT_KEY() { return key[nextEntry()]; }
#if ! #keys(reference)
public KEY_GENERIC_CLASS next() { return KEY2OBJ(key[nextEntry()]); }
#endif
}

#ifdef Linked
private final class KeySet extends ABSTRACT_SORTED_SET KEY_GENERIC {

public KEY_LIST_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) {
return new KeyIterator(from);
}

public KEY_LIST_ITERATOR KEY_GENERIC iterator() {
return new KeyIterator();
}
#else
private final class KeySet extends ABSTRACT_SET KEY_GENERIC {

public KEY_ITERATOR KEY_GENERIC iterator() {
return new KeyIterator();
}
#endif

public int size() {
return size;
}

public boolean contains(KEY_TYPE k) {
return containsKey(k);
}

public boolean remove(KEY_TYPE k) {
final
int oldSize = size;
OPEN_HASH_MAP.this.remove(k);
return size != oldSize;
}

public void clear() {
OPEN_HASH_MAP.this.clear();
}

#ifdef Linked

```

```

public KEY_GENERIC_TYPE FIRST() {
 if (size == 0) throw new NoSuchElementException();
 return key[first];
}

public KEY_GENERIC_TYPE LAST() {
 if (size == 0) throw new NoSuchElementException();
 return key[last];
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

final public SORTED_SET KEY_GENERIC tailSet(KEY_GENERIC_TYPE from) { throw new
UnsupportedOperationException(); }
final public SORTED_SET KEY_GENERIC headSet(KEY_GENERIC_TYPE to) { throw new
UnsupportedOperationException(); }
final public SORTED_SET KEY_GENERIC subSet(KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to) {
throw new UnsupportedOperationException(); }
#endif
}

#ifdef Linked
public SORTED_SET KEY_GENERIC keySet() {
#else
public SET KEY_GENERIC keySet() {
#endif
 if (keys == null)
 keys = new KeySet();
 return keys;
}

/** An iterator on values.
 *
 * <P>We simply override the {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()}
methods
 * (and possibly their type-specific counterparts) so that they return values
 * instead of entries.
 */

#ifdef Linked
private final class ValueIterator extends MapIterator implements VALUE_LIST_ITERATOR VALUE_GENERIC {
 public VALUE_GENERIC_TYPE PREV_VALUE() { return value[previousEntry()]; }

 #if ! #values(reference)
 public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ(value[previousEntry()]); }
 public void set(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
 #endif
}

```



```

 public void add(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
#endif
 public void set(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }
 public void add(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }
#else
 private final class ValueIterator
 extends MapIterator implements VALUE_ITERATOR VALUE_GENERIC {
#endif

 public ValueIterator() { super(); }
 public VALUE_GENERIC_TYPE NEXT_VALUE() { return value[nextEntry()]; }
 #if ! #values(reference)
 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 @Override
 public VALUE_GENERIC_CLASS next() { return VALUE2OBJ(value[nextEntry()]); }
 #endif
 }

 public VALUE_COLLECTION VALUE_GENERIC values() {
 if (values == null) values = new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {

 public VALUE_ITERATOR VALUE_GENERIC iterator() {
 return new ValueIterator();
 }

 public int size() {
 return size;
 }

 public boolean contains(VALUE_TYPE v) {
 return containsValue(v);
 }

 public void clear() {
 OPEN_HASH_MAP.this.clear();
 }
 };

 return values;
}

/** A no-op for backward compatibility. The kind of tables implemented by
 * this class never need rehashing.

```

```

*
* <P>If you need to reduce the table size to fit exactly
* this set, use { @link #trim() }.
*
* @return true.
* @see #trim()
* @deprecated A no-op.
*/

```

@Deprecated

```

public boolean rehash() {
 return true;
}

```

/\*\* Rehashes the map, making the table as small as possible.

```

*
* <P>This method rehashes the table to the smallest size satisfying the
* load factor. It can be used when the set will not be changed anymore, so
* to optimize access speed and size.
*
* <P>If the table size is already the minimum possible, this method
* does nothing.
*
* @return true if there was enough memory to trim the map.
* @see #trim(int)
*/

```

```

public boolean trim() {
 final int l = arraySize(size, f);
 if (l >= n || size > maxFill(l, f)) return true;
 try {
 rehash(l);
 }
 catch(OutOfMemoryError cantDoIt) { return false; }
 return true;
}

```

/\*\* Rehashes this map if the table is too large.

```

*
* <P>Let <var>N</var> be the smallest table size that
can hold
* <code>max(n,{ @link #size()})</code> entries, still satisfying the load factor. If the current
* table size is smaller than or equal to <var>N</var>, this method does
* nothing. Otherwise, it rehashes this map in a table of size
* <var>N</var>.
*

```

```

* <P>This method is useful when reusing maps. { @linkplain #clear() Clearing a
* map} leaves the table size untouched. If you are reusing a map
* many times, you can call this method with a typical
* size to avoid keeping around a very large table just
* because of a few large transient maps.
*
* @param n the threshold for the trimming.
* @return true if there was enough memory to trim the map.
* @see #trim()
*/

```

```

public boolean trim(final int n) {
 final int l = HashCommon.nextPowerOfTwo((int)Math.ceil(n / f));
 if (l >= n || size > maxFill(l, f)) return true;
 try {
 rehash(l);
 }
 catch(OutOfMemoryError cantDoIt) { return false; }
 return true;
}

```

```

/** Rehashes the map.

```

```

*
*

```

```

<P>This method implements the basic rehashing strategy, and may be
* overridden by subclasses implementing different rehashing strategies (e.g.,
* disk-based rehashing). However, you should not override this method
* unless you understand the internal workings of this class.
*
* @param newN the new size
*/

```

```

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED

```

```

protected void rehash(final int newN) {

```

```

 final KEY_GENERIC_TYPE key[] = this.key;
 final VALUE_GENERIC_TYPE value[] = this.value;

```

```

 final int mask = newN - 1; // Note that this is used by the hashing macro

```

```

 final KEY_GENERIC_TYPE newKey[] = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[newN + 1];

```

```

 final VALUE_GENERIC_TYPE newValue[] = VALUE_GENERIC_ARRAY_CAST new VALUE_TYPE[newN
+ 1];

```

```

#ifdef Linked

```

```

 int i = first, prev = -1, newPrev = -1, t, pos;

```

```

 final long link[] = this.link;

```

```

 final long newLink[] = new long[newN + 1];

```

```

 first = -1;

```

```

for(int j = size; j-- != 0;) {
 if (KEY_EQUALS_NULL(key[i])) pos = newN;
 else
 {
 pos = KEY2INTHASH(key[i]) & mask;
 while (! KEY_IS_NULL(newKey[pos])) pos = (pos + 1) & mask;
 }

 newKey[pos] = key[i];
 newValue[pos] = value[i];

 if (prev != -1) {
 SET_NEXT(newLink[newPrev], pos);
 SET_PREV(newLink[pos], newPrev);
 newPrev = pos;
 }
 else {
 newPrev = first = pos;
 // Special case of SET(newLink[pos], -1, -1);
 newLink[pos] = -1L;
 }

 t = i;
 i = GET_NEXT(link[i]);
 prev = t;
}

this.link = newLink;
this.last = newPrev;
if (newPrev != -1)
 // Special case of SET_NEXT(newLink[newPrev], -1);
 newLink[newPrev] |= -1 & 0xFFFFFFFFL;
#else
int i = n, pos;

for(int j = realSize(); j-- != 0;) {
 while(KEY_IS_NULL(key[--i]));

 if (! KEY_IS_NULL(newKey[pos = KEY2INTHASH(key[i]) & mask]))
 while (! KEY_IS_NULL(newKey[pos = (pos + 1) & mask]));

 newKey[pos] = key[i];
 newValue[pos] = value[i];
}

newValue[newN
] = value[n];

```

```

#endif

n = newN;
this.mask = mask;
maxFill = maxFill(n, f);
this.key = newKey;
this.value = newValue;
}

/** Returns a deep copy of this map.
 *
 * <P>This method performs a deep copy of this hash map; the data stored in the
 * map, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this map.
 */

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public OPEN_HASH_MAP KEY_VALUE_GENERIC clone() {
 OPEN_HASH_MAP KEY_VALUE_GENERIC c;
 try {
 c = (OPEN_HASH_MAP KEY_VALUE_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.keys = null;
 c.values = null;
 c.entries = null;
 c.containsNullKey = containsNullKey;

 c.key = key.clone();
 c.value = value.clone();
#ifdef Linked
 c.link = link.clone();
#endif
#ifdef Custom
 c.strategy = strategy;
#endif
 return c;
}

/** Returns a hash code for this map.
 *
 * This method overrides

```

the generic method provided by the superclass.

```
* Since <code>equals()</code> is not overridden, it is important
* that the value returned by this method is the same value as
* the one returned by the overridden method.
*
* @return a hash code for this map.
*/
```

```
public int hashCode() {
 int h = 0;
 for(int j = realSize(), i = 0, t = 0; j-- != 0;) {
 while(KEY_IS_NULL(key[i])) i++;
 #if #keys(reference)
 if (this != key[i])
 #endif
 t = KEY2JAVAHASH_NOT_NULL(key[i]);
 #if #values(reference)
 if (this != value[i])
 #endif
 t ^= VALUE2JAVAHASH(value[i]);
 h += t;
 i++;
 }
 // Zero / null keys have hash zero.
 if (containsNullKey) h += VALUE2JAVAHASH(value[n]);
 return h;
}
```

```
private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 final KEY_GENERIC_TYPE key[] = this.key;
 final VALUE_GENERIC_TYPE value[] = this.value;
 final MapIterator i = new MapIterator();

 s.defaultWriteObject();

 for(
 int j = size, e; j-- != 0;) {
 e = i.nextEntry();
 s.WRITE_KEY(key[e]);
 s.WRITE_VALUE(value[e]);
 }
}
```

SUPPRESS\_WARNINGS\_KEY\_VALUE\_UNCHECKED

```

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();

 n = arraySize(size, f);
 maxFill = maxFill(n, f);
 mask = n - 1;

 final KEY_GENERIC_TYPE key[] = this.key = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[n + 1];
 final VALUE_GENERIC_TYPE value[] = this.value = VALUE_GENERIC_ARRAY_CAST new VALUE_TYPE[
n + 1];
#ifdef Linked
 final long link[] = this.link = new long[n + 1];
 int prev = -1;
 first = last = -1;
#endif

 KEY_GENERIC_TYPE k;
 VALUE_GENERIC_TYPE v;

 for(int i = size, pos; i-- != 0;) {

 k = KEY_GENERIC_CAST s.READ_KEY();
 v = VALUE_GENERIC_CAST s.READ_VALUE();

 if (KEY_EQUALS_NULL(k)) {
 pos = n;
 containsNullKey = true;
 }
 else {
 pos = KEY2INTHASH(k) & mask;
 while (! KEY_IS_NULL(key[
pos])) pos = (pos + 1) & mask;
 }

 key[pos] = k;
 value[pos] = v;

#ifdef Linked
 if (first != -1) {
 SET_NEXT(link[prev], pos);
 SET_PREV(link[pos], prev);
 prev = pos;
 }
 else {
 prev = first = pos;
 // Special case of SET_PREV(newLink[pos], -1);
 link[pos] |= (-1L & 0xFFFFFFFFL) << 32;
 }
#endif
 }
}

```

```

#endif
}

#ifdef Linked
 last = prev;
 if (prev != -1)
 // Special case of SET_NEXT(link[prev], -1);
 link[prev] |= -1 & 0xFFFFFFFFFL;
#endif

 if (ASSERTS) checkTable();
}

#ifdef ASSERTS_CODE
private void checkTable() {
 assert (n & -n) == n : "Table length is not a power of two: " + n;
 assert n == key.length - 1;
 int n = key.length - 1;
 while(n-- != 0)
 if (! KEY_IS_NULL(key[n]) && ! containsKey(key[n]))
 throw new AssertionError("Hash table has key " + key[n] + " marked as occupied, but the key does not belong to
the table");

#ifdef keys(primitive)
 java.util.HashSet<KEY_GENERIC_CLASS>
 s = new java.util.HashSet<KEY_GENERIC_CLASS> ();
#else
 java.util.HashSet<Object> s = new java.util.HashSet<Object>();
#endif

 for(int i = key.length; i-- != 0;)
 if (! KEY_IS_NULL(key[i]) && ! s.add(key[i])) throw new AssertionError("Key " + key[i] + " appears
twice at position " + i);

#ifdef Linked
 KEY_BIDI_ITERATOR KEY_GENERIC i = keySet().iterator();
 KEY_GENERIC_TYPE k;
 n = size();
 while(n-- != 0)
 if (! containsKey(k = i.NEXT_KEY()))
 throw new AssertionError("Linked hash table forward enumerates key " + k + ", but the key does not belong to the
table");

 if (i.hasNext()) throw new AssertionError("Forward iterator not exhausted");

 n = size();

```



```

if (n > 0) {
 i = keySet().iterator(LAST_KEY());
 while(n-- != 0)
 if (! containsKey(k = i.PREV_KEY()))
 throw new AssertionError("Linked hash table backward enumerates key " + k + ", but the key does not belong to
the table");

 if (i.hasPrevious()
) throw new AssertionError("Previous iterator not exhausted");
 }
#endif
}
#else
private void checkTable() {}
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
 return r.NEXT_KEY();
#elif !#keyclass(Reference)
#ifdef Custom
 int i = r.nextInt(3);
 byte a[] = new byte[i];
 while(i-- != 0) a[i] = (byte)r.nextInt();
 return a;
#else
 return Integer.toBinaryString(r.nextInt());
#endif
#else
 return new java.io.Serializable() {};
#endif
}

private static VALUE_TYPE genValue() {
#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Character)
 return (VALUE_TYPE)(r.nextInt());
#elif #values(primitive)
 return r.NEXT_VALUE();
#elif !#valueclass(Reference)
 return Integer.toBinaryString(r.nextInt());

```

```

#else
 return
 new java.io.Serializable() {};
#endif
}

private static final class ArrayComparator implements java.util.Comparator {
 public int compare(Object a, Object b) {
 byte[] aa = (byte[])a;
 byte[] bb = (byte[])b;
 int length = Math.min(aa.length, bb.length);
 for(int i = 0; i < length; i++) {
 if (aa[i] < bb[i]) return -1;
 if (aa[i] > bb[i]) return 1;
 }
 return aa.length == bb.length ? 0 : (aa.length < bb.length ? -1 : 1);
 }
}

private static final class MockMap extends java.util.TreeMap {
 private java.util.List list = new java.util.ArrayList();

 public MockMap(java.util.Comparator c) { super(c); }

 public Object put(Object k, Object v) {
 if (! containsKey(k)) list.add(k);
 return super.put(k, v);
 }

 public void putAll(Map m) {
 java.util.Iterator i = m.entrySet().iterator();
 while(i.hasNext()) {
 Map.Entry e = (Map.Entry)i.next();
 put(e.getKey(), e.getValue());
 }
 }

 public Object
 remove(Object k) {
 if (containsKey(k)) {
 int i = list.size();
 while(i-- != 0) if (comparator().compare(list.get(i), k) == 0) {
 list.remove(i);
 break;
 }
 }
 return super.remove(k);
 }
}

```

```

private void justRemove(Object k) { super.remove(k); }
private java.util.Set justEntrySet() { return super.entrySet(); }
private java.util.Set justKeySet() { return super.keySet(); }

public java.util.Set keySet() {
return new java.util.AbstractSet() {
 final java.util.Set keySet = justKeySet();

 public boolean contains(Object k) { return keySet.contains(k); }
 public int size() { return keySet.size(); }
 public java.util.Iterator iterator() {
return new java.util.Iterator() {
 final java.util.Iterator iterator = list.iterator();
 Object curr;
 public Object next() { return curr = iterator.next(); }
 public boolean hasNext() { return iterator.hasNext(); }
 public void remove()
{
 justRemove(curr);
 iterator.remove();
}
};

}
};

}

public java.util.Set entrySet() {
return new java.util.AbstractSet() {
 final java.util.Set entrySet = justEntrySet();

 public boolean contains(Object k) { return entrySet.contains(k); }
 public int size() { return entrySet.size(); }
 public java.util.Iterator iterator() {
return new java.util.Iterator() {
 final java.util.Iterator iterator = list.iterator();
 Object curr;
 public Object next() {
 curr = iterator.next();
 #if #valueclass(Reference)
 #if #keyclass(Reference)
return new ABSTRACT_MAP.BasicEntry((Object)curr, (Object)get(curr)) {
 #else
return new ABSTRACT_MAP.BasicEntry((KEY_CLASS)curr, (Object)get(curr)) {
 #endif
 #else

```

```

#if #keyclass(Reference)
 return new ABSTRACT_MAP.BasicEntry((Object)curr, (VALUE_CLASS)get(curr)) {
#else
 return new ABSTRACT_MAP.BasicEntry((KEY_CLASS)curr,
(VALUE_CLASS)get(curr)) {
#endif
#endif
 public VALUE_TYPE setValue(VALUE_TYPE v) {
 return VALUE_OBJ2TYPE(put(getKey(), VALUE2OBJ(v)));
 }
};
}
public boolean hasNext() { return iterator.hasNext(); }
public void remove() {
 justRemove(((Map.Entry)curr).getKey());
 iterator.remove();
}
};

}
};

}

}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition fp = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, fp).toString();
}

private static void speedTest(int n, float f, boolean comp) {
#ifdef Custom
 int i, j;
 OPEN_HASH_MAP m;
#ifdef Linked
 java.util.LinkedHashMap t;
#else
 java.util.HashMap t;
#endif
#endif
 KEY_TYPE k[] = new KEY_TYPE[n];
 KEY_TYPE nk[] = new KEY_TYPE[n];
 VALUE_TYPE

```

```

v[] = new VALUE_TYPE[n];
long ns;

for(i = 0; i < n; i++) {
 k[i] = genKey();
 nk[i] = genKey();
 v[i] = genValue();
}

double totPut = 0, totYes = 0, totNo = 0, totIter = 0, totRemYes = 0, totRemNo = 0, d;

if (comp) { for(j = 0; j < 20; j++) {

#ifdef Linked
 t = new java.util.LinkedHashMap(16);
#else
 t = new java.util.HashMap(16);
#endif

 /* We put pairs to t. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) t.put(KEY2OBJ(k[i]), VALUE2OBJ(v[i]));
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totPut += d;
 System.out.print("Put: " + format(d) + "ns ");

 /* We check for pairs in t. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) t.containsKey(KEY2OBJ(k[i]));
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totYes += d;
 System.out.print("Yes: " + format(d) + "ns ");

 /* We check for pairs not in t. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++
) t.containsKey(KEY2OBJ(nk[i]));
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totNo += d;
 System.out.print("No: " + format(d) + "ns ");

 /* We iterate on t. */
 ns = System.nanoTime();
 for(java.util.Iterator it = t.entrySet().iterator(); it.hasNext(); it.next());
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totIter += d;
 System.out.print("Iter: " + format(d) + "ns ");
}

```

```

/* We delete pairs not in t. */
ns = System.nanoTime();
for(i = 0; i < n; i++) t.remove(KEY2OBJ(nk[i]));
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totRemNo += d;
System.out.print("RemNo: " + format(d) + "ns ");

/* We delete pairs in t. */
ns = System.nanoTime();
for(i = 0; i < n; i++) t.remove(KEY2OBJ(k[i]));
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totRemYes += d;
System.out.print("RemYes: " + format(d) + "ns ");

System.out.println();
}

System.out.println();
System.out.println(
"java.util Put: " + format(totPut/(j-3)) + "ns Yes: " + format(totYes/(j-3)) + "ns No: " + format(totNo/(j-3)) + "ns
Iter: " + format(totIter/(j-3)) + "ns RemNo: " + format(totRemNo/(j-3)) + "ns RemYes: " + format(totRemYes/(j-
3)) + "K/s");

System.out.println();

totPut = totYes = totNo = totIter = totRemYes = totRemNo = 0;

}

for(j = 0; j < 20; j++) {

m = new OPEN_HASH_MAP(16, f);

/* We put pairs to m. */
ns = System.nanoTime();
for(i = 0; i < n; i++) m.put(k[i], v[i]);
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totPut += d;
System.out.print("Put: " + format(d) + "ns ");

/* We check for pairs in m. */
ns = System.nanoTime();
for(i = 0; i < n; i++) m.containsKey(k[i]);
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + "ns ");

/* We check for pairs not in m. */

```

```

 ns =
System.nanoTime();
 for(i = 0; i < n; i++) m.containsKey(nk[i]);
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totNo += d;
 System.out.print("No: " + format(d) + "ns ");

 /* We iterate on m. */
 ns = System.nanoTime();
 for(java.util.Iterator it = m.entrySet().iterator(); it.hasNext(); it.next());
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totIter += d;
 System.out.print("Iter: " + format(d) + "ns ");

 /* We delete pairs not in m. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) m.remove(nk[i]);
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totRemNo += d;
 System.out.print("RemNo: " + format(d) + "ns ");

 /* We delete pairs in m. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) m.remove(k[i]);
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totRemYes += d;
 System.out.print("RemYes: " + format(d) + "ns ");

 System.out.println();
}

System.out.println();
System.out.println(
"fastutil Put: " + format(totPut/(j-3)) + "ns Yes: " + format(totYes/(j-3)) + "ns No: " + format(totNo/(j-3)) + "ns
Iter: " + format(totIter/(j-3)) + "ns RemNo: " + format(totRemNo/(j-3)) + "ns RemYes: " + format(totRemYes/(j-
3)) + "ns");

 System.out.println();
#endif
}

private static boolean valEquals(Object o1, Object o2) {
 return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal(String msg) {
 System.out.println(msg);
}

```

```

System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

protected static void test(int n, float f) {
 #if !defined(Custom) || #keys(reference)

 #ifdef Custom
 OPEN_HASH_MAP m = new OPEN_HASH_MAP(Hash.DEFAULT_INITIAL_SIZE, f,
 it.unimi.dsi.fastutil.bytes.ByteArrays.HASH_STRATEGY);
 #else
 OPEN_HASH_MAP m = new OPEN_HASH_MAP(Hash.DEFAULT_INITIAL_SIZE, f);
 #endif

 #ifdef Linked
 #ifdef Custom
 Map t = new MockMap(
 new ArrayComparator());
 #else
 Map t = new java.util.LinkedHashMap();
 #endif
 #else
 #ifdef Custom
 Map t = new java.util.TreeMap(new ArrayComparator());
 #else
 Map t = new java.util.HashMap();
 #endif
 #endif

 /* First of all, we fill t with random data. */

 for(int i=0; i<n; i++) t.put(KEY2OBJ(genKey()), VALUE2OBJ(genValue()));

 /* Now we add to m the same data */

 m.putAll(t);

 if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after insertion");
 if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after insertion");

 /* Now we check that m actually holds that data. */

 for(java.util.Iterator i=t.entrySet().iterator(); i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();

```



```

if (!valEquals(e.getValue(), m.get(e.getKey())))
 System.out.println("Error (" + seed + "): m and t differ on an entry (" + e + ") after insertion (iterating on t)");
}

/* Now we check that m actually holds
that data, but iterating on m. */

for(java.util.Iterator i=m.entrySet().iterator(); i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 if (!valEquals(e.getValue(), t.get(e.getKey())))
 System.out.println("Error (" + seed + "): m and t differ on an entry (" + e + ") after insertion (iterating on m)");
}

/* Now we check that m actually holds the same keys. */

for(java.util.Iterator i=t.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 if (!m.containsKey(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + o + ") after insertion (iterating on t)");
 System.exit(1);
 }
 if (!m.keySet().contains(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + o + ", in keySet()) after insertion (iterating on t)");
 System.exit(1);
 }
}

/* Now we check that m actually holds the same keys, but iterating on m. */

for(java.util.Iterator i=m.keySet().iterator(); i.hasNext();
) {
 Object o = i.next();
 if (!t.containsKey(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a key after insertion (iterating on m)");
 System.exit(1);
 }
 if (!t.keySet().contains(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (in keySet()) after insertion (iterating on m)");
 System.exit(1);
 }
}

/* Now we check that m actually hold the same values. */

for(java.util.Iterator i=t.values().iterator(); i.hasNext();) {
 Object o = i.next();
 if (!m.containsValue(o)) {

```

```

System.out.println("Error (" + seed + "): m and t differ on a value after insertion (iterating on t)");
System.exit(1);
}
if (!m.values().contains(o)) {
System.out.println("Error (" + seed + "): m and t differ on a value (in values()) after insertion (iterating on t)");
System.exit(1);
}
}

/* Now we check that m actually hold the same values, but iterating on m. */

for(java.util.Iterator
i=m.values().iterator(); i.hasNext();) {
Object o = i.next();
if (!t.containsValue(o)) {
System.out.println("Error (" + seed + "): m and t differ on a value after insertion (iterating on m)");
System.exit(1);
}
if (!t.values().contains(o)) {
System.out.println("Error (" + seed + "): m and t differ on a value (in values()) after insertion (iterating on m)");
System.exit(1);
}
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
KEY_TYPE T = genKey();
if (m.containsKey(KEY2OBJ(T)) != t.containsKey(KEY2OBJ(T))) {
System.out.println("Error (" + seed + "): divergence in keys between t and m (polymorphic method)");
System.exit(1);
}
}

#if (#keys(reference)) && ! (#values(reference))
if ((m.GET_VALUE(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
t.get(KEY2OBJ(T))
!= null &&
! VALUE2OBJ(m.GET_VALUE(T)).equals(t.get(KEY2OBJ(T))))
#else
if ((m.get(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
t.get(KEY2OBJ(T)) != null &&
! m.get(KEY2OBJ(T)).equals(t.get(KEY2OBJ(T))))
#endif
{
System.out.println("Error (" + seed + "): divergence between t and m (polymorphic method)");
}

```

```

 System.exit(1);
 }
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 if (!valEquals(m.get(KEY2OBJ(T)), t.get(KEY2OBJ(T)))) {
 System.out.println("Error (" + seed + "): divergence between t and m (standard method)");
 System.exit(1);
 }
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();
 VALUE_TYPE
U = genValue();
 if (!valEquals(m.put(KEY2OBJ(T), VALUE2OBJ(U)), t.put(KEY2OBJ(T), VALUE2OBJ(U)))) {
 System.out.println("Error (" + seed + "): divergence in put() between t and m");
 System.exit(1);
 }
 T = genKey();
 if (!valEquals(m.remove(KEY2OBJ(T)), t.remove(KEY2OBJ(T)))) {
 System.out.println("Error (" + seed + "): divergence in remove() between t and m");
 System.exit(1);
 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after removal");

/* Now we check that m actually holds the same data. */

for(java.util.Iterator i=t.entrySet().iterator(); i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 if (!valEquals(e.getValue(), m.get(e.getKey()))) {
 System.out.println("Error (" + seed + "): m and t differ on an entry (" + e + ") after removal (iterating on t)");
 System.exit(1);
 }
}

/*

```

Now we check that m actually holds that data, but iterating on m. \*/

```
for(java.util.Iterator i=m.entrySet().iterator(); i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 if (!valEquals(e.getValue(), t.get(e.getKey()))) {
 System.out.println("Error (" + seed + "): m and t differ on an entry (" + e + ") after removal (iterating on m)");
 System.exit(1);
 }
}
```

/\* Now we check that m actually holds the same keys. \*/

```
for(java.util.Iterator i=t.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 if (!m.containsKey(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + o + ") after removal (iterating on t)");
 System.exit(1);
 }
 if (!m.keySet().contains(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + o + ", in keySet()) after removal (iterating on t)");
 System.exit(1);
 }
}
```

/\* Now we check that m actually holds the same keys, but iterating on m. \*/

```
for(java.util.Iterator i=m.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 if (!t.containsKey(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a key after removal (iterating on m)");
 System.exit(1);
 }
 if (!t.keySet().contains(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (in keySet()) after removal (iterating on m)");
 System.exit(1);
 }
}
```

/\* Now we check that m actually hold the same values. \*/

```
for(java.util.Iterator i=t.values().iterator(); i.hasNext();) {
 Object o = i.next();
 if (!m.containsValue(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a value after removal (iterating on t)");
 System.exit(1);
 }
}
```

```

if (!m.values().contains(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a value (in values()) after removal (iterating on t)");
 System.exit(1);
}
}

/* Now we check that m actually hold the same values,
but iterating on m. */

for(java.util.Iterator i=m.values().iterator(); i.hasNext();) {
 Object o = i.next();
 if (!t.containsValue(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a value after removal (iterating on m)");
 System.exit(1);
 }
 if (!t.values().contains(o)) {
 System.out.println("Error (" + seed + "): m and t differ on a value (in values()) after removal (iterating on m)");
 System.exit(1);
 }
}

int h = m.hashCode();

/* Now we save and read m. */

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m = (OPEN_HASH_MAP)ois.readObject();
 ois.close();
 ff.delete();
}
catch(Exception
e) {
 e.printStackTrace();
 System.exit(1);
}

```

```

#if !#keyclass(Reference) && !#valueclass(Reference)
if (m.hashCode() != h) System.out.println("Error (" + seed + "): hashCode() changed after save/read");

/* Now we check that m actually holds that data. */

for(java.util.Iterator i=t.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 if (!valEquals(m.get(o),t.get(o))) {
 System.out.println("Error (" + seed + "): m and t differ on an entry after save/read");
 System.exit(1);
 }
}
#else
m.clear();
m.putAll(t);
#endif

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();
 VALUE_TYPE U = genValue();
 if (!valEquals(m.put(KEY2OBJ(T), VALUE2OBJ(U)), t.put(KEY2OBJ(T), VALUE2OBJ(U)))) {
 System.out.println("Error (" + seed + "): divergence in put() between t and m after save/read");
 System.exit(1);
 }
 T = genKey();
 if
(!valEquals(m.remove(KEY2OBJ(T)), t.remove(KEY2OBJ(T)))) {
 System.out.println("Error (" + seed + "): divergence in remove() between t and m after save/read");
 System.exit(1);
 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after post-save/read removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after post-save/read removal");

#ifdef Linked

/* Now we play with iterators. */

{
 java.util.ListIterator i, j;
 Object J;

```

```

Map.Entry E, F;
i = (java.util.ListIterator)m.entrySet().iterator();
j = new java.util.LinkedList(t.entrySet()).listIterator();

for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext()");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious()");

 if (r.nextFloat() < .8 && i.hasNext()) {
#ifdef Custom
 ensure(m.strategy().equals((E=(java.util.Map.Entry)i.next()).getKey(),
 J = (F=(Map.Entry)j.next()).getKey()), "Error (" + seed + "): divergence in next()");
#else
 ensure((E=(java.util.Map.Entry)i.next()).getKey().equals(J = (F=(Map.Entry)j.next()).getKey()), "Error (" + seed +
 "): divergence in next()");
#endif

 if (r.nextFloat() < 0.3) {
 i.remove();
 j.remove();
 t.remove(J);
 }
 else if (r.nextFloat() < 0.3) {
 Object U = VALUE2OBJ(genValue());
 E.setValue(U);
 t.put(F.getKey(), U);
 }
 else if (r.nextFloat() < .2 && i.hasPrevious()) {
#ifdef Custom
 ensure(m.strategy().equals((E=(java.util.Map.Entry)i.previous()).getKey(), J =
 (F=(Map.Entry)j.previous()).getKey()), "Error (" + seed + "): divergence in previous()");
#else
 ensure((E=(java.util.Map.Entry)i.previous()).getKey().equals(J = (F=(Map.Entry)j.previous()).getKey()), "Error ("
 + seed + "): divergence in previous()");
#endif
 }

 if (r.nextFloat() < 0.3) {
 i.remove();
 j.remove();
 t.remove(
J);
 }
 else if (r.nextFloat() < 0.3) {
 Object U = VALUE2OBJ(genValue());
 E.setValue(U);
 t.put(F.getKey(), U);
 }
 }
}

```

```

 }

 ensure(i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex()");
 ensure(i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex()");

 }

 }

 if (t.size() > 0) {
 java.util.ListIterator i, j;
 Object J;
 j = new java.util.LinkedList(t.keySet()).listIterator();
 int e = r.nextInt(t.size());
 Object from;
 do from = j.next(); while(e-- != 0);

 i = (java.util.ListIterator)((SORTED_SET)m.keySet()).iterator(KEY_OBJ2TYPE(from));

 for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext() (iterator with starting point " +
 from + ")");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in
 hasPrevious() (iterator with starting point " + from + ")");

 if (r.nextFloat() < .8 && i.hasNext()) {
#ifdef Custom
 ensure(m.strategy().equals(i.next(), J = j.next()), "Error (" + seed + "): divergence in next() (iterator with starting
 point " + from + ")");
#else
 ensure(i.next().equals(J = j.next()), "Error (" + seed + "): divergence in next() (iterator with starting point " + from
 + ")");
#endif
 }

 if (r.nextFloat() < 0.5) {
 i.remove();
 j.remove();
 t.remove(J);
 }
 else if (r.nextFloat() < .2 && i.hasPrevious()) {
#ifdef Custom
 ensure(m.strategy().equals(i.previous(), J = j.previous()), "Error (" + seed + "): divergence in previous() (iterator
 with starting point " + from + ")");
#else
 ensure(i.previous().equals(J = j.previous()), "Error (" + seed + "): divergence in previous() (iterator with starting
 point " + from + ")");
#endif
 }
 }
 }
}

```



```

 if (r.nextFloat() < 0.5) {
 i.remove();
 j.remove();
 t.remove(
J);
 }
 }

 ensure(i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex() (iterator with starting point "
+ from + ")");
 ensure(i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex() (iterator with
starting point " + from + ")");

 }

}

/* Now we check that m actually holds that data. */

ensure(m.equals(t), "Error (" + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + seed + "): ! t.equals(m) after iteration");

#endif

/* Now we take out of m everything, and check that it is empty. */

for(java.util.Iterator i=t.keySet().iterator(); i.hasNext();) m.remove(i.next());

if (!m.isEmpty()) {
 System.out.println("Error (" + seed + "): m is not empty (as it should be)");
 System.exit(1);
}

#ifdef NumericEnhancements
#if #valueclass(Byte) || #valueclass(Character) || #valueclass(Short) || #valueclass(Integer) || #valueclass(Long)
/*
Now we check that increment works properly, using random data */

{
 t.clear();
 m.clear();

 for(int k = 0; k < 2*n; k++) {
 KEY_TYPE T = genKey();

```

```

VALUE_TYPE U = genValue();

VALUE_TYPE rU = m.increment(T, U);
VALUE_GENERIC_CLASS tU = (VALUE_GENERIC_CLASS) t.get(KEY2OBJ(T));
if (null == tU) {
 ensure(m.defaultReturnValue() == rU, "Error (" + seed + "): map increment does not return proper starting value.");
 t.put(KEY2OBJ(T), VALUE2OBJ((VALUE_TYPE) (m.defaultReturnValue() + U)));
}
else {
 t.put(KEY2OBJ(T), VALUE2OBJ((VALUE_TYPE) (((VALUE_TYPE) tU) + U)));
}
}

// Maps should contain identical values
ensure(new java.util.HashMap(m).equals(new java.util.HashMap(t)),
 "Error(" + seed + "): incremented maps are not equal.");
}
#endif
#endif

#if (#keyclass(Integer) || #keyclass(Long)) && (#valueclass(Integer) || #valueclass(Long))
m = new OPEN_HASH_MAP(n, f);
t.clear();
int x;

/*
Now we torture-test the hash table. This part is implemented only for integers and longs. */

int p = m.key.length;

for(int i=0; i<p; i++) {
 for (int j=0; j<20; j++) {
 m.put(i+(r.nextInt() % 10)*p, 1);
 m.remove(i+(r.nextInt() % 10)*p);
 }

 for (int j=-10; j<10; j++) m.remove(i+j*p);
}

t.putAll(m);

/* Now all table entries are REMOVED. */

for(int i=0; i<(p*f)/10; i++) {
 for (int j=0; j<10; j++) {
 if (!valEquals(m.put(KEY2OBJ(x = i+(r.nextInt() % 10)*p), VALUE2OBJ(1)), t.put(KEY2OBJ(x),
VALUE2OBJ(1))))

```

```

 System.out.println("Error (" + seed + "): m and t differ on an entry during torture-test insertion.");
 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test insertion");

for(int i=0; i<p/10; i++) {
 for (int j=0; j<10; j++) {
 if (!valEquals(m.remove(KEY2OBJ(x = i+(r.nextInt()
% 10)*p)), t.remove(KEY2OBJ(x))))
 System.out.println("Error (" + seed + "): m and t differ on an entry during torture-test removal.");
 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test removal");

if (!m.equals(m.clone())) System.out.println("Error (" + seed + "): !m.equals(m.clone()) after torture-test removal");
if (!((OPEN_HASH_MAP)m.clone()).equals(m)) System.out.println("Error (" + seed + "): !m.clone().equals(m)
after torture-test removal");

m.rehash();

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after rehash()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after rehash()");

m.trim();

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after trim()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m)
after trim()");
#endif

System.out.println("Test OK");
return;

#endif
}

public static void main(String args[]) {
 float f = Hash.DEFAULT_LOAD_FACTOR;
 int n = Integer.parseInt(args[1]);
 if (args.length>2) f = Float.parseFloat(args[2]);
 if (args.length > 3) r = new java.util.Random(seed = Long.parseLong(args[3]));

 try {

```

```

 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, f, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n, f);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }

}

#endif

}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/LinkedOpenCustomHashMap.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/OpenHashMap.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/LinkedOpenHashMap.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/OpenCustomHashMap.drv

```

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*/

```

```

package PACKAGE;

```

```

import it.unimi.dsi.fastutil.AbstractStack;

```

```

/** An abstract class providing basic methods for implementing a type-specific stack interface.
*
* <P>To create a type-specific stack, you need both object methods and
* primitive-type methods. However, if you inherit from this class you need

```

```

* just
one (anyone).
*/

public abstract class ABSTRACT_STACK KEY_GENERIC extends AbstractStack<KEY_GENERIC_CLASS>
implements STACK KEY_GENERIC {

protected ABSTRACT_STACK() {}

/** Delegates to the corresponding type-specific method. */
public void push(KEY_GENERIC_CLASS o) {
push(o.KEY_VALUE());
}

/** Delegates to the corresponding type-specific method. */
public KEY_GENERIC_CLASS pop() {
return KEY_CLASS.valueOf(POP());
}

/** Delegates to the corresponding type-specific method. */
public KEY_GENERIC_CLASS top() {
return KEY_CLASS.valueOf(TOP());
}

/** Delegates to the corresponding type-specific method. */
public KEY_GENERIC_CLASS peek(int i) {
return KEY_CLASS.valueOf(PEEK(i));
}

/** Delegates to the corresponding generic method. */
public void push(KEY_TYPE k) {
push(KEY_CLASS.valueOf(k));
}

/** Delegates to the corresponding generic method. */
public KEY_TYPE POP() {
return pop().KEY_VALUE();
}

/** Delegates to the corresponding
generic method. */
public KEY_TYPE TOP() {
return top().KEY_VALUE();
}

/** Delegates to the corresponding generic method. */
public KEY_TYPE PEEK(int i) {
return peek(i).KEY_VALUE();
}

```

```
}
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractStack.drv
```

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```
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```

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```

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```
* limitations under the License.
```

```
*/
```

```
package PACKAGE;
```

```
import java.util.Comparator;
```

```
/** A type-specific {@link Comparator}; provides methods to compare two primitive types both as objects
```

```
* and as primitive types.
```

```
*
```

```
* <P>Note that fastutil provides a corresponding abstract class that
```

```
* can be used to implement this interface just by
```

```
specifying the type-specific
```

```
* comparator.
```

```
*
```

```
* @see Comparator
```

```
*/
```

```
public interface KEY_COMPARATOR KEY_GENERIC extends Comparator<KEY_GENERIC_CLASS> {
```

```
/** Compares the given primitive types.
```

```
*
```

```
* @see java.util.Comparator
```

```
* @return A positive integer, zero, or a negative integer if the first
```

```
* argument is greater than, equal to, or smaller than, respectively, the
```

```
* second one.
```

```
*/
```

```
public int compare(KEY_TYPE k1, KEY_TYPE k2);
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Comparator.drv

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\*/

```
package PACKAGE;
```

```
/** An abstract class providing basic methods for sorted sets implementing a type-specific interface. */
```

```
public abstract class ABSTRACT_SORTED_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC
implements SORTED_SET KEY_GENERIC {
```

```
 protected ABSTRACT_SORTED_SET() {}
```

```
 #if #keys(primitive)
```

```
 /** Delegates
```

```
 to the corresponding type-specific method.
```

```
 * @deprecated Please use the corresponding type-specific method instead. */
```

```
 @Deprecated
```

```
 public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_CLASS to) {
```

```
 return headSet(to.KEY_VALUE());
```

```
 }
```

```
 /** Delegates to the corresponding type-specific method.
```

```
 * @deprecated Please use the corresponding type-specific method instead. */
```

```
 @Deprecated
```

```
 public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_CLASS from) {
```

```
 return tailSet(from.KEY_VALUE());
```

```

}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_SET KEY_GENERIC subSet(final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to) {
 return subSet(from.KEY_VALUE(), to.KEY_VALUE());
}

```

```

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS first()
{
 return KEY2OBJ(FIRST());
}

```

```

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS last() {
 return KEY2OBJ(LAST());
}
#endif

```

```

/** Delegates to the new covariantly stronger generic method. */

```

```

@Deprecated
public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() {
 return iterator();
}

```

```

public abstract KEY_BIDI_ITERATOR KEY_GENERIC iterator();
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractSortedSet.drv

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*/
```

```
package PACKAGE;
```

```
#if #keyclass(Object)
import java.util.Arrays;
import java.util.Comparator;
```

```
import it.unimi.dsi.fastutil.AbstractPriorityQueue;
#else
import java.util.Iterator;
#endif
```

```
import java.util.Collection;
import java.util.NoSuchElementException;
```

```
/** A type-specific heap-based priority
queue.
```

```
*
* <P>Instances of this class represent a priority queue using a heap. The heap is enlarged as needed, but
* it is never shrunk. Use the { @link #trim()} method to reduce its size, if necessary.
*/
```

```
public class HEAP_PRIORITY_QUEUE KEY_GENERIC extends ABSTRACT_PRIORITY_QUEUE
KEY_GENERIC implements java.io.Serializable {
 private static final long serialVersionUID = 1L;
```

```
/** The heap array. */
 SUPPRESS_WARNINGS_KEY_UNCHECKED
 protected transient KEY_GENERIC_TYPE[] heap = KEY_GENERIC_ARRAY_CAST
 ARRAYS.EMPTY_ARRAY;
```

```
/** The number of elements in this queue. */
 protected int size;
```

```
/** The type-specific comparator used in this queue. */
 protected KEY_COMPARATOR KEY_SUPER_GENERIC c;
```

```
/** Creates a new empty queue with a given capacity and comparator.
*

```

```

* @param capacity the initial capacity of this queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public HEAP_PRIORITY_QUEUE(int capacity,
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
if (capacity > 0) this.heap = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[capacity];
this.c = c;
}

/** Creates a new empty queue with a given capacity and using the natural order.
*
* @param capacity the initial capacity of this queue.
*/
public HEAP_PRIORITY_QUEUE(int capacity) {
this(capacity, null);
}

/** Creates a new empty queue with a given comparator.
*
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_PRIORITY_QUEUE(KEY_COMPARATOR KEY_SUPER_GENERIC c) {
this(0, c);
}

/** Creates a new empty queue using the natural order.
*/
public HEAP_PRIORITY_QUEUE() {
this(0, null);
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
* The first <code>size</code> element of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing
the elements of <code>a</code> one by one).
*
* @param a an array.
* @param size the number of elements to be included in the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] a, int size, final KEY_COMPARATOR
KEY_SUPER_GENERIC c) {
this(c);
this.heap = a;
this.size = size;
}

```

```

HEAPS.makeHeap(a, size, c);
}

/** Wraps a given array in a queue using a given comparator.
 *
 * <P>The queue returned by this method will be backed by the given array.
 * The elements of the array will be rearranged so to form a heap (this is
 * more efficient than enqueueing the elements of <code>a</code> one by one).
 *
 * @param a an array.
 * @param c the comparator used in this queue, or <code>>null</code> for the natural order.
 */
public HEAP_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] a, final KEY_COMPARATOR
KEY_SUPER_GENERIC c) {
 this(a, a.length, c);
}

/** Wraps
a given array in a queue using the natural order.
 *
 * <P>The queue returned by this method will be backed by the given array.
 * The first <code>size</code> element of the array will be rearranged so to form a heap (this is
 * more efficient than enqueueing the elements of <code>a</code> one by one).
 *
 * @param a an array.
 * @param size the number of elements to be included in the queue.
 */
public HEAP_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] a, int size) {
 this(a, size, null);
}

/** Wraps a given array in a queue using the natural order.
 *
 * <P>The queue returned by this method will be backed by the given array.
 * The elements of the array will be rearranged so to form a heap (this is
 * more efficient than enqueueing the elements of <code>a</code> one by one).
 *
 * @param a an array.
 */
public HEAP_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] a) {
 this(a, a.length);
}

#if #keys(primitive)

/** Creates a queue using the elements in a type-specific

```

collection using a given comparator.

```
*
* <P>This constructor is more efficient than enqueueing the elements of <code>collection</code> one by one.
*
* @param collection a collection; its elements will be used to initialize the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
```

```
public HEAP_PRIORITY_QUEUE(final COLLECTION KEY_EXTENDS_GENERIC collection, final
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(collection.TO_KEY_ARRAY(), c);
}
```

```
/** Creates a queue using the elements in a type-specific collection using the natural order.
```

```
*
* <P>This constructor is
* more efficient than enqueueing the elements of <code>collection</code> one by one.
*
* @param collection a collection; its elements will be used to initialize the queue.
*/
```

```
public HEAP_PRIORITY_QUEUE(final COLLECTION KEY_EXTENDS_GENERIC collection) {
 this(collection, null);
}
```

```
/** Creates a queue using the elements in a collection using a given
comparator.
```

```
*
* <P>This constructor is more efficient than enqueueing the elements of <code>collection</code> one by one.
*
* @param collection a collection; its elements will be used to initialize the queue.
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
```

```
public HEAP_PRIORITY_QUEUE(final Collection<? extends KEY_GENERIC_CLASS> collection, final
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(collection.size(), c);
 final Iterator<? extends KEY_GENERIC_CLASS> iterator = collection.iterator();
 final int size = collection.size();
 for(int i = 0 ; i < size; i++) heap[i] = KEY_OBJ2TYPE(iterator.next());
}
```

```
/** Creates a queue using the elements in a collection using the natural order.
```

```
*
* <P>This constructor is
* more efficient than enqueueing the elements of <code>collection</code> one by one.
*
* @param collection a collection; its elements will be used to initialize the queue.
*/
```

```
public HEAP_PRIORITY_QUEUE(
```

```

final Collection<? extends KEY_GENERIC_CLASS> collection) {
 this(collection, null);
}
#else
/** Creates a queue using the elements in a collection using a given comparator.
 *
 * <P>This constructor is more efficient than enqueueing the elements of <code>collection</code> one by one.
 *
 * @param collection a collection; its elements will be used to initialize the queue.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public HEAP_PRIORITY_QUEUE(final Collection<? extends KEY_GENERIC_CLASS> collection, final
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(KEY_GENERIC_ARRAY_CAST collection.toArray(), c);
}

/** Creates a queue using the elements in a collection using the natural order.
 *
 * <P>This constructor is
 * more efficient than enqueueing the elements of <code>collection</code> one by one.
 *
 * @param collection a collection; its elements will be used to initialize the queue.
 */
public
HEAP_PRIORITY_QUEUE(final Collection<? extends KEY_GENERIC_CLASS> collection) {
 this(collection, null);
}
#endif

public void enqueue(KEY_GENERIC_TYPE x) {
 if (size == heap.length) heap = ARRAYS.grow(heap, size + 1);

 heap[size++] = x;
 HEAPS.upHeap(heap, size, size - 1, c);
}

public KEY_GENERIC_TYPE DEQUEUE() {
 if (size == 0) throw new NoSuchElementException();

 final KEY_GENERIC_TYPE result = heap[0];
 heap[0] = heap[--size];
 #if #keyclass(Object)
 heap[size] = null;
 #endif
 if (size != 0) HEAPS.downHeap(heap, size, 0, c);
 return result;
}

```

```

public KEY_GENERIC_TYPE FIRST() {
 if (size == 0) throw new NoSuchElementException();
 return heap[0];
}

public void changed() {
 HEAPS.downHeap(heap, size, 0, c);
}

public int size() { return size; }

public void clear() {
 #if #keyclass(Object)
 Arrays.fill(heap, 0, size, null);
 #endif
 size = 0;
}

/** Trims the underlying heap array so that it has exactly { @link
#size()} elements.
*/

public void trim() {
 heap = ARRAYS.trim(heap, size);
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return c; }

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 s.defaultWriteObject();
 s.writeInt(heap.length);
 for(int i = 0; i < size; i++) s.WRITE_KEY(heap[i]);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
 heap = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[s.readInt()];
 for(int i = 0; i < size; i++) heap[i] = KEY_GENERIC_CAST s.READ_KEY();
}

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

```

```

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
 #elif #keys(primitive)
 return r.NEXT_KEY();
 #elif #keyclass(Object)
 return
 Integer.toBinaryString(r.nextInt());
 #else
 return new java.io.Serializable() {};
 #endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
 System.out.println("There are presently no speed tests for this class.");
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

private static boolean heapEqual(KEY_TYPE[] a, KEY_TYPE[] b, int sizea, int sizeb) {
 if (sizea != sizeb) return false;
 KEY_TYPE[] aa = (KEY_TYPE[])a.clone();
 KEY_TYPE[] bb = (KEY_TYPE[])b.clone();
 java.util.Arrays.sort(aa, 0, sizea
);
 java.util.Arrays.sort(bb, 0, sizeb);
 while(sizea-- != 0) if (! KEY_EQUALS(aa[sizea], bb[sizea])) return false;
 return true;
}

private static KEY_TYPE k[];

```

```

protected static void test(int n) {
 long ms;
 Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds, mThrowsNoElement,
 tThrowsNoElement;
 KEY_TYPE rm = KEY_NULL, rt = KEY_NULL;
 k = new KEY_TYPE[n];

 for(int i = 0; i < n; i++) k[i] = genKey();

 HEAP_PRIORITY_QUEUE m = new HEAP_PRIORITY_QUEUE(
 COMPARATORS.NATURAL_COMPARATOR);
 ARRAY_PRIORITY_QUEUE t = new ARRAY_PRIORITY_QUEUE(
 COMPARATORS.NATURAL_COMPARATOR);

 /* We add pairs to t. */
 for(int i = 0; i < n / 2; i++) {
 t.enqueue(k[i]);
 m.enqueue(k[i]);
 }

 ensure(heapEqual(m.heap, t.array, m.size(), t.size()), "Error (" + seed + "): m and t differ after creation (" + m + ",
 " + t + ")");

 if (m.size() != 0) {
 ensure(KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ
 in first element after creation (" + m.FIRST() + ", " + t.FIRST() + ")");
 }

 /* Now we add and remove random data in m and t, checking that the result is the same. */

 for(int i=0; i<2*n; i++) {

 if (r.nextDouble() < 0.01) {
 t.clear();
 m.clear();
 for(int j = 0; j < n / 2; j++) {
 t.enqueue(k[j]);
 m.enqueue(k[j]);
 }
 }

 KEY_TYPE T = genKey();

 mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
 tThrowsIllegal = null;

 try {

```



```

 m.enqueue(T);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { mThrowsIllegal = e; }

try {
 t.enqueue(T);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): enqueue()
divergence in IndexOutOfBoundsException
for " + T + " (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): enqueue() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");

ensure(heapEqual(m.heap, t.array, m.size(), t.size()), "Error (" + seed + "): m and t differ after enqueue (" + m + ",
" + t + ")");

if (m.size() != 0) {
 ensure(KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ in first element after enqueue
(" + m.FIRST() + ", " + t.FIRST() + ")");
}

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try {
 rm = m.DEQUEUE();
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { mThrowsIllegal = e; }
catch (NoSuchElementException e) { mThrowsNoElement = e; }

try {
 rt
= t.DEQUEUE();
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }
catch (NoSuchElementException e) { tThrowsNoElement = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): dequeue()
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): dequeue() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
ensure((mThrowsNoElement == null) == (tThrowsNoElement == null), "Error (" + seed + "): dequeue()

```

```

divergence in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 if (mThrowsOutOfBounds == null) ensure(KEY_EQUALS(rt, rm) , "Error (" + seed + "): divergence in dequeue()
between t and m (" + rt + ", " + rm + ")");

 ensure(
heapEqual(m.heap, t.array, m.size(), t.size()), "Error (" + seed + "): m and t differ after dequeue (" + m + ", " + t +
")");

 if (m.size() != 0) {
 ensure(KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ in first element after dequeue
(" + m.FIRST() + ", " + t.FIRST() + ")");
 }

 /* Now we save and read m. */

 try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m = (HEAP_PRIORITY_QUEUE)ois.readObject();
 ois.close();
 ff.delete();
 }
 catch(Exception e) {
 e.printStackTrace();
 System.exit(1);
 }

 ensure(heapEqual(m.heap, t.array, m.size(), t.size()), "Error (" + seed
+ "): m and t differ after save/read");

 HEAP_PRIORITY_QUEUE m2 = new HEAP_PRIORITY_QUEUE(t.array, t.size());
 ARRAY_PRIORITY_QUEUE t2 = new ARRAY_PRIORITY_QUEUE(m.heap, m.size());
 m = m2;
 t = t2;

 ensure(heapEqual(m.heap, t.array, m.size(), t.size()), "Error (" + seed + "): m and t differ after wrap (" + m + ", " +
t + ")");

 if (m.size() != 0) {

```

```

 ensure(KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ in first element after wrap (" +
m.FIRST() + ", " + t.FIRST() + ")");
}

if (m.size() != 0 && ((new OPEN_HASH_SET(m.heap, 0, m.size)).size() == m.size())) {

 int j = t.size(), M = --j;
 #if #keys(primitive)
 while(j-- != 0) if (KEY_LESS(t.array[j], t.array[M])) M = j;
 #else
 while(j-- != 0) if (((Comparable)t.array[j]).compareTo(t.array[M]) < 0) M = j;
 #endif

 m.heap[0] = t.array[M] = genKey();

 m.changed();
 t.changed();

 ensure(heapEqual(m.heap, t.array, m.size(),
t.size()), "Error (" + seed + "): m and t differ after change (" + m + ", " + t + ")");

 if (m.size() != 0) {
 ensure(KEY_EQUALS(m.FIRST(), t.FIRST()), "Error (" + seed + "): m and t differ in first element after change ("
+ m.FIRST() + ", " + t.FIRST() + ")");
 }
}

/* Now we check that m actually holds the same data. */

m.clear();
ensure(m.isEmpty(), "Error (" + seed + "): m is not empty after clear()");

System.out.println("Test OK");
}

public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
 } catch(Throwable e) {

```

```
e.printStackTrace(System.err);
System.err.println("seed: " + seed);
}
}
```

```
#endif
```

```
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/HeapPriorityQueue.drv

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

```
/*
```

```
* Copyright (C) 2002-2015 Sebastiano Vigna
```

```
*
```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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```

```
* limitations under the License.
```

```
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.Hash;
```

```
/** A type-specific {@link Hash} interface.
```

```
*
```

```
* @see Hash
```

```
*/
```

```
public interface HASH {
```

```
/** A type-specific hash strategy.
```

```
*
```

```
* @see it.unimi.dsi.fastutil.Hash.Strategy
```

```
*/
```

```
public interface Strategy {
```

```

/** Returns the hash code of the specified element
with respect to this hash strategy.
 *
 * @param e an element.
 * @return the hash code of the given element with respect to this hash strategy.
 */

public int hashCode(KEY_TYPE e);

/** Returns true if the given elements are equal with respect to this hash strategy.
 *
 * @param a an element.
 * @param b another element.
 * @return true if the two specified elements are equal with respect to this hash strategy.
 */
public boolean equals(KEY_TYPE a, KEY_TYPE b);
}
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Hash.drv  
No license file was found, but licenses were detected in source scan.

```

/*
 * Copyright (C) 2003-2015 Paolo Boldi and Sebastiano Vigna
 *
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 * you may not use this file except in compliance with the License.
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```

package PACKAGE;

#if #keyclass(Object)
import java.util.Comparator;
import it.unimi.dsi.fastutil.IndirectPriorityQueue;
#endif

import java.util.NoSuchElementException;

```

```

import it.unimi.dsi.fastutil.ints.IntArrays;
import it.unimi.dsi.fastutil.AbstractIndirectPriorityQueue;

/** A type-specific heap-based
semi-indirect priority queue.
*
* <P>Instances of this class use as reference list a reference array,
* which must be provided to each constructor. The priority queue is
* represented using a heap. The heap is enlarged as needed, but it is never
* shrunk. Use the { @link #trim()} method to reduce its size, if necessary.
*
* <P>This implementation allows one to enqueue several time the same index, but
* you must be careful when calling { @link #changed()}.
*/

public class HEAP_SEMI_INDIRECT_PRIORITY_QUEUE<KEY_GENERIC> extends
AbstractIndirectPriorityQueue<KEY_GENERIC_CLASS> implements INDIRECT_PRIORITY_QUEUE
KEY_GENERIC {

/** The reference array. */
protected final KEY_GENERIC_TYPE refArray[];

/** The semi-indirect heap. */
protected int heap[] = IntArrays.EMPTY_ARRAY;

/** The number of elements in this queue. */
protected int size;

/** The type-specific comparator used in this queue. */
protected KEY_COMPARATOR KEY_SUPER_GENERIC c;

/** Creates a
new empty queue without elements with a given capacity and comparator.
*
* @param refArray the reference array.
* @param capacity the initial capacity of this queue.
* @param c the comparator used in this queue, or <code>>null</code> for the natural order.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray, int capacity,
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
if (capacity > 0) this.heap = new int[capacity];
this.refArray = refArray;
this.c = c;
}

/** Creates a new empty queue with given capacity and using the natural order.
*

```

```

* @param refArray the reference array.
* @param capacity the initial capacity of this queue.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray, int capacity) {
 this(refArray, capacity, null);
}

/** Creates a new empty queue with capacity equal to the length of the reference array and a given comparator.
*
* @param refArray the reference array.
* @param c the comparator used
in this queue, or <code>null</code> for the natural order.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray,
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(refArray, refArray.length, c);
}

/** Creates a new empty queue with capacity equal to the length of the reference array and using the natural order.
* @param refArray the reference array.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray) {
 this(refArray, refArray.length, null);
}

/** Wraps a given array in a queue using a given comparator.
*
* <P>The queue returned by this method will be backed by the given array.
* The first <code>size</code> element of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param size the number of elements to be included in the queue.
*
* @param c the comparator used in this queue, or <code>null</code> for the natural order.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, int
size, final KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(refArray, 0, c);
 this.heap = a;
 this.size = size;
 SEMI_INDIRECT_HEAPS.makeHeap(refArray, a, size, c);
}

/** Wraps a given array in a queue using a given comparator.

```

```

*
* <P>The queue returned by this method will be backed by the given array.
* The elements of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param c the comparator used in this queue, or <code>>null</code> for the natural order.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, final
KEY_COMPARATOR KEY_SUPER_GENERIC
c) {
 this(refArray, a, a.length, c);
}

/** Wraps a given array in a queue using the natural order.
*
* <P>The queue returned by this method will be backed by the given array.
* The first <code>size</code> element of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
* @param size the number of elements to be included in the queue.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, int
size) {
 this(refArray, a, size, null);
}

/** Wraps a given array in a queue using the natural order.
*
* <P>The queue returned by this method will be backed by the given array.
* The elements of the array will be rearranged so to form a heap (this is
* more efficient than enqueueing the elements of <code>a</code> one by one).
*
* @param
refArray the reference array.
* @param a an array of indices into <code>refArray</code>.
*/
public HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a) {
 this(refArray, a, a.length);
}

/** Ensures that the given index is a valid reference.
*
* @param index an index in the reference array.

```



```

* @throws IndexOutOfBoundsException if the given index is negative or larger than the reference array length.
*/
protected void ensureElement(final int index) {
 if (index < 0) throw new IndexOutOfBoundsException("Index (" + index + ") is negative");
 if (index >= refArray.length) throw new IndexOutOfBoundsException("Index (" + index + ") is larger than or
equal to reference array size (" + refArray.length + ")");
}

public void enqueue(int x) {
 ensureElement(x);

 if (size == heap.length) heap = IntArrays.grow(heap, size + 1);

 heap[size++] = x;
 SEMI_INDIRECT_HEAPS.upHeap(refArray, heap, size, size - 1, c);
}

public
int dequeue() {
 if (size == 0) throw new NoSuchElementException();
 final int result = heap[0];
 heap[0] = heap[--size];
 if (size != 0) SEMI_INDIRECT_HEAPS.downHeap(refArray, heap, size, 0, c);
 return result;
}

public int first() {
 if (size == 0) throw new NoSuchElementException();
 return heap[0];
}

/** {@inheritDoc}
*
* <P>The caller must guarantee that when this method is called the
* index of the first element appears just once in the queue. Failure to do so
* will bring the queue in an inconsistent state, and will cause
* unpredictable behaviour.
*/

public void changed() {
 SEMI_INDIRECT_HEAPS.downHeap(refArray, heap, size, 0, c);
}

/** Rebuilds this heap in a bottom-up fashion.
*/

public void allChanged() {
 SEMI_INDIRECT_HEAPS.makeHeap(refArray, heap, size, c);
}

```

```

}

public int size() { return size; }

public void clear() { size = 0; }

/** Trims the backing array so that it has exactly {@link
#size()} elements.
*/

public void trim() {
 heap = IntArrays.trim(heap, size);
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return c; }

public int front(final int[] a) {
 return c == null ? SEMI_INDIRECT_HEAPS.front(refArray, heap, size, a) : SEMI_INDIRECT_HEAPS.front(
refArray, heap, size, a, c);
}

public String toString() {
 StringBuffer s = new StringBuffer();
 s.append("[");
 for (int i = 0; i < size; i++) {
 if (i != 0) s.append(", ");
 s.append(refArray[heap [i]]);
 }
 s.append("]");
 return s.toString();
}

#ifdef TEST

/** The original class, now just used for testing. */

private static class TestQueue {

 /** The reference array */
 private KEY_TYPE refArray[];
 /** Its length */
 private int N;
 /** The number of elements in the heaps */
 private int n;
 /** The two comparators */
 private KEY_COMPARATOR primaryComp, secondaryComp;
 /** Two indirect heaps are used, called <code>primary</code> and <code>secondary</code>.

```

Each of them contains

a permutation of `n` among the indices 0, 1, ..., `N-1` in such a way that the corresponding

objects be sorted with respect to the two comparators.

We also need an array `inSec[]` so that `inSec[k]` is the index of `secondary`

containing `k`.

\*/

```
private int primary[], secondary[], inSec[];
```

```
/** Builds a double indirect priority queue.
```

```
 * @param refArray The reference array.
```

```
 * @param primaryComp The primary comparator.
```

```
 * @param secondaryComp The secondary comparator.
```

```
*/
```

```
public TestQueue(KEY_TYPE refArray[], KEY_COMPARATOR primaryComp, KEY_COMPARATOR
secondaryComp) {
```

```
 this.refArray = refArray;
```

```
 this.N = refArray.length;
```

```
 assert this.N != 0;
```

```
 this.n = 0;
```

```
 this.primaryComp = primaryComp;
```

```
 this.secondaryComp = secondaryComp;
```

```
 this.primary = new int[N];
```

```
 this.secondary = new int[N];
```

```
 this.inSec = new int[N];
```

```
 java.util.Arrays.fill(inSec,
```

```
-1);
```

```
}
```

```
/** Adds an index to the queue. Notice that the index should not be already present in the queue.
```

```
 * @param i The index to be added
```

```
*/
```

```
public void add(int i) {
```

```
 if (i < 0 || i >= refArray.length) throw new IndexOutOfBoundsException();
```

```
 //if (inSec[i] >= 0) throw new IllegalArgumentException();
```

```
 primary[n] = i;
```

```
 n++;
```

```
 swimPrimary(n-1);
```

```
}
```

```
/** Heapify the primary heap.
```

```
 * @param i The index of the heap to be heapified.
```

```
*/
```

```
private void heapifyPrimary(int i) {
```

```
 int dep = primary[i];
```

```
 int child;
```

```

while ((child = 2*i+1) < n) {
 if (child+1 < n && primaryComp.compare(refArray[primary[child+1]], refArray[primary[child]]) < 0) child++;
 if (primaryComp.compare(refArray[dep], refArray[primary[child]]) <= 0) break;
 primary[i] = primary[child];
 i = child;
}
primary[i] = dep;
}

/** Heapify the secondary heap.
 * @param i The index of the heap to be heapified.
 */
private void heapifySecondary(
int i) {
 int dep = secondary[i];
 int child;

 while ((child = 2*i+1) < n) {
 if (child+1 < n && secondaryComp.compare(refArray[secondary[child+1]], refArray[secondary[child]]) < 0)
child++;
 if (secondaryComp.compare(refArray[dep], refArray[secondary[child]]) <= 0) break;
 secondary[i] = secondary[child]; inSec[secondary[i]] = i;
 i = child;
 }
 secondary[i] = dep; inSec[secondary[i]] = i;
}

/** Swim and heapify the primary heap.
 * @param i The index to be moved.
 */
private void swimPrimary(int i) {
 int dep = primary[i];
 int parent;

 while (i != 0 && (parent = (i - 1) / 2) >= 0) {
 if (primaryComp.compare(refArray[primary[parent]], refArray[dep]) <= 0) break;
 primary[i] = primary[parent];
 i = parent;
 }
 primary[i] = dep;
 heapifyPrimary(i);
}

/** Swim and heapify the secondary heap.
 * @param i The index to be moved.
 */
private void swimSecondary(int i) {
 int dep = secondary[i];

```

```

int
parent;

while (i != 0 && (parent = (i - 1) / 2) >= 0) {
 if (secondaryComp.compare(refArray[secondary[parent]], refArray[dep]) <= 0) break;
 secondary[i] = secondary[parent]; inSec[secondary[i]] = i;
 i = parent;
}
secondary[i] = dep; inSec[secondary[i]] = i;
heapifySecondary(i);
}

/** Returns the minimum element with respect to the primary comparator.
 @return the minimum element.
 */
public int top() {
 if (n == 0) throw new NoSuchElementException();
 return primary[0];
}

/** Returns the minimum element with respect to the secondary comparator.
 @return the minimum element.
 */
public int secTop() {
 if (n == 0) throw new NoSuchElementException();
 return secondary[0];
}

/** Removes the minimum element with respect to the primary comparator.
 * @return the removed element.
 */
public void remove() {
 if (n == 0) throw new NoSuchElementException();
 int result = primary[0];
 // Copy a
leaf
 primary[0] = primary[n-1];
 n--;
 heapifyPrimary(0);
 return;
}

public void clear() {
 while(size() != 0) remove();
}

/** Signals that the minimum element with respect to the comparator has changed.
 */

```

```

public void change() {
 heapifyPrimary(0);
}

/** Returns the number of elements in the queue.
 * @return the size of the queue
 */
public int size() {
 return n;
}

public String toString() {
 String s = "[";
 for (int i = 0; i < n; i++)
 s += refArray[primary[i]]+", ";
 return s+ "]";
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
 return r.NEXT_KEY();
#elif #keyclass(Object)
 return Integer.toString(r.nextInt());
#else
 return new java.io.Serializable() {};
#endif
}

private
static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
 System.out.println("There are presently no speed tests for this class.");
}

```

```

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

private static boolean heapEqual(int[] a, int[] b, int sizea, int sizeb) {
 if (sizea != sizeb) return false;
 while(sizea-- != 0) if (a[sizea] != b[sizea]) return false;
 return true;
}

protected static void test(int n) {
 long ms;
 Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds, mThrowsNoElement,
 tThrowsNoElement;
 int
 rm = 0, rt = 0;
 KEY_TYPE[] refArray = new KEY_TYPE[n];

 for(int i = 0; i < n; i++) refArray[i] = genKey();

 HEAP_SEMI_INDIRECT_PRIORITY_QUEUE m = new HEAP_SEMI_INDIRECT_PRIORITY_QUEUE(
 refArray, COMPARATORS.NATURAL_COMPARATOR);
 TestQueue t = new TestQueue(refArray, COMPARATORS.NATURAL_COMPARATOR,
 COMPARATORS.OPPOSITE_COMPARATOR);

 /* We add pairs to t. */
 for(int i = 0; i < n / 2; i++) {
 t.add(i);
 m.enqueue(i);
 }

 ensure(heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after creation (" + m +
 ", " + t + ")");

 /* Now we add and remove random data in m and t, checking that the result is the same. */

 for(int i=0; i<2*n; i++) {
 if (r.nextDouble() < 0.01) {
 t.clear();
 m.clear();
 for(int j = 0; j < n / 2; j++) {
 t.add(j);
 }
 }
 }

```

```

 m.enqueue(j);
 }
}

int T = r.nextInt(2 * n);

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds
= mThrowsIllegal = tThrowsIllegal = null;

try {
 m.enqueue(T);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { mThrowsIllegal = e; }

try {
 t.add(T);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): enqueue()
divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds
+ ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): enqueue() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");

ensure(heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after enqueue (" + m +
", " + t + ")");

if (m.size() != 0) {
 ensure(
m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after enqueue (" + m.first() + ", " + t.top() +
")");
}

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try {
 rm = m.dequeue();
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { mThrowsIllegal = e; }
catch (NoSuchElementException e) { mThrowsNoElement = e; }

try {
 rt = t.top();

```



```

 t.remove();
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
 catch (IllegalArgumentException e) { tThrowsIllegal = e; }
 catch (NoSuchElementException e) { tThrowsNoElement = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): dequeue()
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
 ensure((mThrowsIllegal == null) == (tThrowsIllegal
== null), "Error (" + seed + "): dequeue() divergence in IllegalArgumentException (" + mThrowsIllegal + ", " +
tThrowsIllegal + ")");
 ensure((mThrowsNoElement == null) == (tThrowsNoElement == null), "Error (" + seed + "): dequeue()
divergence in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 if (mThrowsOutOfBounds == null) ensure(rt == rm , "Error (" + seed + "): divergence in dequeue() between t and
m (" + rt + ", " + rm + ")");

 ensure(heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after dequeue (" + m +
", " + t + ")");

 if (m.size() != 0) {
 ensure(m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after dequeue (" + m.first() + ", " +
t.top() + ")");
 }

 if (m.size() != 0 && ((new it.unimi.dsi.fastutil.ints.IntOpenHashSet(m.heap, 0, m.size)).size() == m.size())) {

 refArray[m.first()] = genKey();

 m.changed();
 t.change();

 ensure(
heapEqual(m.heap, t.primary, m.size(), t.size()), "Error (" + seed + "): m and t differ after change (" + m + ", " + t
+ ")");

 if (m.size() != 0) {
 ensure(m.first() == t.top(), "Error (" + seed + "): m and t differ in first element after change (" + m.first() + ", " +
t.top() + ")");
 }
 }

 /* Now we check that m actually holds the same data. */

 m.clear();
 ensure(m.isEmpty(), "Error (" + seed + "): m is not empty after clear()");

```

```
System.out.println("Test OK");
}
```

```
public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}

#endif
}
```

#### Found

in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/HeapSemiIndirectPriorityQueue.drv

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/\*

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\*/

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteBigArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/doubles/DoubleBigArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortBigArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/ObjectBigArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatBigArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/booleans/BooleanBigArrays.java  
\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/chars/CharBigArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntBigArrays.java  
\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongBigArrays.java

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

<project>

<modelVersion>4.0.0</modelVersion>

<groupId>it.unimi.dsi</groupId>

<artifactId>fastutil</artifactId>

<packaging>jar</packaging>

<name>fastutil</name>

<version>7.0.10</version>

<description>fastutil extends the Java Collections Framework by providing type-specific maps, sets, lists and priority queues with a small memory footprint and fast access and insertion; provides also big (64-bit) arrays, sets and lists, and fast, practical I/O classes for binary and text files.</description>

<url><http://fastutil.di.unimi.it/></url>

<licenses>

<license>

<name>Apache License, Version 2.0</name>

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

<distribution>repo</distribution>

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</license>
</licenses>
<scm>
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</scm>
<developers>
 <developer>

 <id>vigna</id>
 <name>Sebastiano Vigna</name>
 <email>vigna@di.unimi.it</email>
</developer>
</developers>
<dependencies>
</dependencies>
</project>
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/pom.xml
No license file was found, but licenses were detected in source scan.
```

```
/*
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 * limitations under the License.
 */
```

```
package PACKAGE;
```

```
import java.util.Iterator;
import java.util.RandomAccess;
import java.util.NoSuchElementException;
import it.unimi.dsi.fastutil.BigArrays;
```

```
#if #keys(primitive)
```

```

/** A type-specific big list based on a big array; provides some additional methods that use polymorphism to avoid
(un)boxing.
*
* <P>This
class implements a lightweight, fast, open, optimized,
* reuse-oriented version of big-array-based big lists. Instances of this class
* represent a big list with a big array that is enlarged as needed when new entries
* are created (by doubling the current length), but is
* never made smaller (even on a { @link #clear()}). A family of
* { @linkplain #trim() trimming methods} lets you control the size of the
* backing big array; this is particularly useful if you reuse instances of this class.
* Range checks are equivalent to those of { @link java.util}'s classes, but
* they are delayed as much as possible. The backing big array is exposed by the
* { @link #elements()} method.
*
* <p>This class implements the bulk methods <code>removeElements()</code>,
* <code>addElement()</code> and <code>getElements()</code> using
* high-performance system calls (e.g., { @link
* System#arraycopy(Object,int,Object,int,int) System.arraycopy()}) instead of
* expensive loops.
*
* @see java.util.ArrayList
*/

```

```

public class BIG_ARRAY_BIG_LIST KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC
implements RandomAccess, Cloneable, java.io.Serializable {
private static final long serialVersionUID = -7046029254386353130L;

```

```

#else

```

```

/** A type-specific big-array-based big list; provides some additional methods that use polymorphism to avoid
(un)boxing.
*
* <P>This class implements a lightweight, fast, open, optimized,
* reuse-oriented version of big-array-based big lists. Instances of this class
* represent a big list with a big array that is enlarged as needed when new entries
* are created (by doubling the current length), but is
* never made smaller (even on a { @link #clear()}). A family of
* { @linkplain #trim() trimming methods} lets you control the size of the
* backing big array; this is particularly useful if you reuse instances of this class.
* Range checks are equivalent to those of { @link java.util}'s classes, but
* they are delayed as much
as possible.
*
* <p>The backing big array is exposed by the { @link #elements()} method. If an instance
* of this class was created { @linkplain #wrap(Object[][],long) by wrapping},
* backing-array reallocations will be performed using reflection, so that

```

```

* {@link #elements()} can return a big array of the same type of the original big array; the comments
* about efficiency made in {@link it.unimi.dsi.fastutil.objects.ObjectArrays} apply here.
*
* <p>This class implements the bulk methods <code>removeElements()</code>,
* <code>addElements()</code> and <code>getElements()</code> using
* high-performance system calls (e.g., {@link
* System#arraycopy(Object,int,Object,int,int) System.arraycopy()} instead of
* expensive loops.
*
* @see java.util.ArrayList
*/

```

```

public class BIG_ARRAY_BIG_LIST KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC
implements RandomAccess, Cloneable, java.io.Serializable {
private static final long serialVersionUID = -7046029254386353131L;

```

```

#endif

```

```

/**

```

```

The initial default capacity of a big-array big list. */

```

```

public final static int DEFAULT_INITIAL_CAPACITY = 16;

```

```

#if ! #keys(primitive)

```

```

/** Whether the backing big array was passed to <code>wrap()</code>. In

```

```

* this case, we must reallocate with the same type of big array. */

```

```

protected final boolean wrapped;

```

```

#endif

```

```

/** The backing big array. */

```

```

protected transient KEY_GENERIC_TYPE a[][];

```

```

/** The current actual size of the big list (never greater than the backing-array length). */

```

```

protected long size;

```

```

private static final boolean ASSERTS = ASSERTS_VALUE;

```

```

/** Creates a new big-array big list using a given array.

```

```

*

```

```

* <P>This constructor is only meant to be used by the wrapping methods.

```

```

*

```

```

* @param a the big array that will be used to back this big-array big list.

```

```

*/

```

```

@SuppressWarnings("unused")

```

```

protected BIG_ARRAY_BIG_LIST(final KEY_GENERIC_TYPE a[], boolean dummy) {

```

```

this.a = a;

```

```

#if ! #keys(primitive)

```

```

 this.wrapped = true;
 #endif
 }

 /** Creates
 a new big-array big list with given capacity.
 *
 * @param capacity the initial capacity of the array list (may be 0).
 */

 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public BIG_ARRAY_BIG_LIST(final long capacity) {
 if (capacity < 0) throw new IllegalArgumentException("Initial capacity (" + capacity + ") is negative");

 a = KEY_GENERIC_BIG_ARRAY_CAST BIG_ARRAYS.newBigArray(capacity);
 #if ! #keys(primitive)
 wrapped = false;
 #endif
 }

 /** Creates a new big-array big list with { @link #DEFAULT_INITIAL_CAPACITY } capacity.
 */

 public BIG_ARRAY_BIG_LIST() {
 this(DEFAULT_INITIAL_CAPACITY);
 }

 /** Creates a new big-array big list and fills it with a given type-specific collection.
 *
 * @param c a type-specific collection that will be used to fill the array list.
 */

 public BIG_ARRAY_BIG_LIST(final COLLECTION KEY_EXTENDS_GENERIC c) {
 this(c.size());
 for(KEY_ITERATOR KEY_EXTENDS_GENERIC i = c.iterator(); i.hasNext();) add(i.NEXT_KEY());
 }

 /** Creates a
 new big-array big list and fills it with a given type-specific list.
 *
 * @param l a type-specific list that will be used to fill the array list.
 */

 public BIG_ARRAY_BIG_LIST(final BIG_LIST KEY_EXTENDS_GENERIC l) {
 this(l.size64());
 l.getElements(0, a, 0, size = l.size64());
 }

```

```

/** Creates a new big-array big list and fills it with the elements of a given big array.
 *
 * <p>Note that this constructor makes it easy to build big lists from literal arrays
 * declared as <code><var>type</var>[][] {{ <var>init_values</var> }}</code>.
 * The only constraint is that the number of initialisation values is
 * below { @link it.unimi.dsi.fastutil.BigArrays#SEGMENT_SIZE}.
 *
 * @param a a big array whose elements will be used to fill the array list.
 */

```

```

public BIG_ARRAY_BIG_LIST(final KEY_GENERIC_TYPE a[][]) {
 this(a, 0, BIG_ARRAYS.length(a));
}

```

```

/** Creates a new big-array big list and fills it with the elements of a given big array.
 *
 * <p>Note that
 * this constructor makes it easy to build big lists from literal arrays
 * declared as <code><var>type</var>[][] {{ <var>init_values</var> }}</code>.
 * The only constraint is that the number of initialisation values is
 * below { @link it.unimi.dsi.fastutil.BigArrays#SEGMENT_SIZE}.
 *
 * @param a a big array whose elements will be used to fill the array list.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 */

```

```

public BIG_ARRAY_BIG_LIST(final KEY_GENERIC_TYPE a[][], final long offset, final long length) {
 this(length);
 BIG_ARRAYS.copy(a, offset, this.a, 0, length);
 size = length;
}

```

```

/** Creates a new big-array big list and fills it with the elements returned by an iterator..
 *
 * @param i an iterator whose returned elements will fill the array list.
 */

```

```

public BIG_ARRAY_BIG_LIST(final Iterator<? extends KEY_GENERIC_CLASS> i) {
 this();
 while(i.hasNext()) this.add(i.next());
}

```

```

/** Creates a new big-array
 * big list and fills it with the elements returned by a type-specific iterator..
 *
 * @param i a type-specific iterator whose returned elements will fill the array list.
 */

```



```

public BIG_ARRAY_BIG_LIST(final KEY_ITERATOR KEY_EXTENDS_GENERIC i) {
 this();
 while(i.hasNext()) this.add(i.NEXT_KEY());
}

#if #keys(primitive)
/** Returns the backing big array of this big list.
 *
 * @return the backing big array.
 */

public KEY_GENERIC_TYPE[][] elements() {
 return a;
}
#else
/** Returns the backing big array of this big list.
 *
 * <P>If this big-array big list was created by wrapping a given big array, it is guaranteed
 * that the type of the returned big array will be the same. Otherwise, the returned
 * big array will be an big array of objects.
 *
 * @return the backing big array.
 */

public KEY_GENERIC_TYPE[][] elements() {
 return a;
}
#endif

/** Wraps a given big array into a big-array list of given size.
 *
 * @param a a big array to wrap.

 * @param length the length of the resulting big-array list.
 * @return a new big-array list of the given size, wrapping the given big array.
 */

public static KEY_GENERIC BIG_ARRAY_BIG_LIST KEY_GENERIC wrap(final KEY_GENERIC_TYPE
a[], final long length) {
 if (length > BIG_ARRAYS.length(a)) throw new IllegalArgumentException("The specified length (" + length +
") is greater than the array size (" + BIG_ARRAYS.length(a) + ")");
 final BIG_ARRAY_BIG_LIST KEY_GENERIC l = new BIG_ARRAY_BIG_LIST KEY_GENERIC(a, false);
 l.size = length;
 return l;
}

/** Wraps a given big array into a big-array big list.

```

```

*
* @param a a big array to wrap.
* @return a new big-array big list wrapping the given array.
*/

public static KEY_GENERIC BIG_ARRAY_BIG_LIST KEY_GENERIC wrap(final KEY_GENERIC_TYPE a[][]
) {
 return wrap(a, BIG_ARRAYS.length(a));
}

/** Ensures that this big-array big list can contain the given number of entries without resizing.
*
* @param capacity
the new minimum capacity for this big-array big list.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public void ensureCapacity(final long capacity) {
 #if #keys(primitive)
 a = BIG_ARRAYS.ensureCapacity(a, capacity, size);
 #else
 if (wrapped) a = BIG_ARRAYS.ensureCapacity(a, capacity, size);
 else {
 if (capacity > BIG_ARRAYS.length(a)) {
 final Object t[][] = BIG_ARRAYS.newBigArray(capacity);
 BIG_ARRAYS.copy(a, 0, t, 0, size);
 a = (KEY_GENERIC_TYPE[][]);t;
 }
 }
 #endif
 if (ASSERTS) assert size <= BIG_ARRAYS.length(a);
}

/** Grows this big-array big list, ensuring that it can contain the given number of entries without resizing,
* and in case enlarging it at least by a factor of two.
*
* @param capacity the new minimum capacity for this big-array big list.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
private void grow(final long capacity) {
 #if #keys(primitive)
 a = BIG_ARRAYS.grow(a, capacity, size);
 #else
 if (wrapped) a = BIG_ARRAYS.grow(
a, capacity, size);
 else {
 if (capacity > BIG_ARRAYS.length(a)) {
 final int newLength = (int)Math.max(Math.min(2 * BIG_ARRAYS.length(a),

```

```

it.unimi.dsi.fastutil.Arrays.MAX_ARRAY_SIZE), capacity);
 final Object t[][] = BIG_ARRAYS.newBigArray(newLength);
 BIG_ARRAYS.copy(a, 0, t, 0, size);
 a = (KEY_GENERIC_TYPE[][])t;
}
}
#endif
if (ASSERTS) assert size <= BIG_ARRAYS.length(a);
}

public void add(final long index, final KEY_GENERIC_TYPE k) {
 ensureIndex(index);
 grow(size + 1);
 if (index != size) BIG_ARRAYS.copy(a, index, a, index + 1, size - index);
 BIG_ARRAYS.set(a, index, k);
 size++;
 if (ASSERTS) assert size <= BIG_ARRAYS.length(a);
}

public boolean add(final KEY_GENERIC_TYPE k) {
 grow(size + 1);
 BIG_ARRAYS.set(a, size++, k);
 if (ASSERTS) assert size <= BIG_ARRAYS.length(a);
 return true;
}

public KEY_GENERIC_TYPE GET_KEY(final long index) {
 if (index >= size) throw new IndexOutOfBoundsException(
 "Index (" + index + ") is greater than or equal to list size (" + size + ")");
 return BIG_ARRAYS.get(a, index);
}

public long indexOf(final KEY_TYPE k) {
 for(long i = 0; i < size; i++) if (KEY_EQUALS(k, BIG_ARRAYS.get(a, i))) return i;
 return -1;
}

public long lastIndexOf(final KEY_TYPE k) {
 for(long i = size; i-- != 0;) if (KEY_EQUALS(k, BIG_ARRAYS.get(a, i))) return i;
 return -1;
}

public KEY_GENERIC_TYPE REMOVE_KEY(final long index) {
 if (index >= size) throw new IndexOutOfBoundsException("Index (" + index + ") is greater than or equal to list
size (" + size + ")");
 final KEY_GENERIC_TYPE old = BIG_ARRAYS.get(a, index);
 size--;
}

```

```

 if (index != size) BIG_ARRAYS.copy(a, index + 1, a, index, size - index);
#endif #keys(reference)
 BIG_ARRAYS.set(a, size, null);
#endif

 if (ASSERTS) assert size <= BIG_ARRAYS.length(a);
 return old;
}

public boolean rem(final KEY_TYPE k) {
 final long index = indexOf(
k);
 if (index == -1) return false;
 REMOVE_KEY(index);
 if (ASSERTS) assert size <= BIG_ARRAYS.length(a);
 return true;
}

#endif #keys(reference)
public boolean remove(final Object o) {
 return rem(o);
}
#endif

public KEY_GENERIC_TYPE set(final long index, final KEY_GENERIC_TYPE k) {
 if (index >= size) throw new IndexOutOfBoundsException("Index (" + index + ") is greater than or equal to list
size (" + size + ")");
 KEY_GENERIC_TYPE old = BIG_ARRAYS.get(a, index);
 BIG_ARRAYS.set(a, index, k);
 return old;
}

public void clear() {
#endif #keys(reference)
 BIG_ARRAYS.fill(a, 0, size, null);
#endif
 size = 0;
 if (ASSERTS) assert size <= BIG_ARRAYS.length(a);
}

public long size64() {
 return size;
}

public void size(final long size) {
 if (size > BIG_ARRAYS.length(a)) ensureCapacity(size);
 if (size > this.size) BIG_ARRAYS.fill(a, this.size, size, KEY_NULL);
#endif #keys(reference)
 else BIG_ARRAYS.fill(a, size, this.size,

```

```

KEY_NULL);
#endif
 this.size = size;
}

public boolean isEmpty() {
 return size == 0;
}

/** Trims this big-array big list so that the capacity is equal to the size.
 *
 * @see java.util.ArrayList#trimToSize()
 */
public void trim() {
 trim(0);
}

/** Trims the backing big array if it is too large.
 *
 * If the current big array length is smaller than or equal to
 * <code>n</code>, this method does nothing. Otherwise, it trims the
 * big-array length to the maximum between <code>n</code> and {@link #size64()}.
 *
 * <P>This method is useful when reusing big lists. {@linkplain #clear() Clearing a
 * big list} leaves the big-array length untouched. If you are reusing a big list
 * many times, you can call this method with a typical
 * size to avoid keeping around a very large big array just
 * because of a few large transient big lists.
 *
 * @param n the threshold for the trimming.
 */
public void trim(final long n) {
 final long arrayLength
 = BIG_ARRAYS.length(a);
 if (n >= arrayLength || size == arrayLength) return;
 a = BIG_ARRAYS.trim(a, Math.max(n, size));
 if (ASSERTS) assert size <= BIG_ARRAYS.length(a);
}

/** Copies element of this type-specific list into the given big array using optimized system calls.
 *
 * @param from the start index (inclusive).
 * @param a the destination big array.
 * @param offset the offset into the destination array where to store the first element copied.
 * @param length the number of elements to be copied.
 */

```

```

public void getElements(final int from, final KEY_TYPE[][] a, final long offset, final long length) {
 BIG_ARRAYS.copy(this.a, from, a, offset, length);
}

/** Removes elements of this type-specific list using optimized system calls.
 *
 * @param from the start index (inclusive).
 * @param to the end index (exclusive).
 */
public void removeElements(final int from, final int to) {
 BigArrays.ensureFromTo(size, from, to);
 BIG_ARRAYS.copy(
 a, to, a, from, size - to);
 size -= (to - from);
 #if #keys(reference)
 BIG_ARRAYS.fill(a, size, size + to - from, null);
 #endif
}

/** Adds elements to this type-specific list using optimized system calls.
 *
 * @param index the index at which to add elements.
 * @param a the big array containing the elements.
 * @param offset the offset of the first element to add.
 * @param length the number of elements to add.
 */
public void addElements(final int index, final KEY_GENERIC_TYPE a[], final long offset, final long length) {
 ensureIndex(index);
 BIG_ARRAYS.ensureOffsetLength(a, offset, length);
 grow(size + length);
 BIG_ARRAYS.copy(this.a, index, this.a, index + length, size - index);
 BIG_ARRAYS.copy(a, offset, this.a, index, length);
 size += length;
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(final int index) {
 ensureIndex(index);

 return new KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC() {
 int pos = index,
 last = -1;

 public boolean hasNext() { return pos < size; }
 public boolean hasPrevious() { return pos > 0; }
 public KEY_GENERIC_TYPE NEXT_KEY() { if (! hasNext()) throw new NoSuchElementException(); return
 BIG_ARRAYS.get(a, last = pos++); }
 };
}

```

```

 public KEY_GENERIC_TYPE PREV_KEY() { if (! hasPrevious()) throw new NoSuchElementException(); return
BIG_ARRAYS.get(a, last = --pos); }
 public long nextIndex() { return pos; }
 public long previousIndex() { return pos - 1; }
 public void add(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 BIG_ARRAY_BIG_LIST.this.add(pos++, k);
 last = -1;
 }
 public void set(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 BIG_ARRAY_BIG_LIST.this.set(last, k);
 }
 public void remove() {
 if (last == -1) throw new IllegalStateException();
 BIG_ARRAY_BIG_LIST.this.REMOVE_KEY(last);
 /* If the last operation was a next(),
we are removing an element *before* us, and we must decrease pos correspondingly. */
 if (last < pos) pos--;
 last = -1;
 }
};
}

```

```

public BIG_ARRAY_BIG_LIST KEY_GENERIC clone() {
 BIG_ARRAY_BIG_LIST KEY_GENERIC c = new BIG_ARRAY_BIG_LIST KEY_GENERIC(size);
 BIG_ARRAYS.copy(a, 0, c.a, 0, size);
 c.size = size;
 return c;
}

```

```

#if #keyclass(Object)
private boolean valEquals(final K a, final K b) {
 return a == null ? b == null : a.equals(b);
}
#endif

```

```

/** Compares this type-specific big-array list to another one.
*
* <P>This method exists only for sake of efficiency. The implementation
* inherited from the abstract implementation would already work.
*
* @param l a type-specific big-array list.
* @return true if the argument contains the same elements of this type-specific big-array list.
*/
public boolean equals(final BIG_ARRAY_BIG_LIST KEY_GENERIC l) {
 if (l == this) return true;

```

```

long s = size64();
if (s != l.size64()
) return false;
final KEY_GENERIC_TYPE[][] a1 = a;
final KEY_GENERIC_TYPE[][] a2 = l.a;

#if #keyclass(Object)
while(s-- != 0) if (! valEquals(BIG_ARRAYS.get(a1, s), BIG_ARRAYS.get(a2, s))) return false;
#else
while(s-- != 0) if (BIG_ARRAYS.get(a1, s) != BIG_ARRAYS.get(a2, s)) return false;
#endif
return true;
}

#if ! #keyclass(Reference)

/** Compares this big list to another big list.
 *
 * <P>This method exists only for sake of efficiency. The implementation
 * inherited from the abstract implementation would already work.
 *
 * @param l a big list.
 * @return a negative integer,
 * zero, or a positive integer as this big list is lexicographically less than, equal
 * to, or greater than the argument.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public int compareTo(final BIG_ARRAY_BIG_LIST KEY_EXTENDS_GENERIC l) {
final long s1 = size64(), s2 = l.size64();
final KEY_GENERIC_TYPE a1[][] = a, a2[][] = l.a;
KEY_GENERIC_TYPE
e1, e2;
int r, i;

for(i = 0; i < s1 && i < s2; i++) {
e1 = BIG_ARRAYS.get(a1, i);
e2 = BIG_ARRAYS.get(a2, i);
if ((r = KEY_CMP(e1, e2)) != 0) return r;
}

return i < s2 ? -1 : (i < s1 ? 1 : 0);
}
#endif

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
s.defaultWriteObject();

```



```

for(int i = 0; i < size; i++) s.WRITE_KEY(BIG_ARRAYS.get(a, i));
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
 a = KEY_GENERIC_BIG_ARRAY_CAST BIG_ARRAYS.newBigArray(size);
 for(int i = 0; i < size; i++) BIG_ARRAYS.set(a, i, KEY_GENERIC_CAST s.READ_KEY());
}

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return
 (KEY_TYPE)(r.nextInt());
 #elif #keys(primitive)
 return r.NEXT_KEY();
 #elif #keyclass(Object)
 return Integer.toBinaryString(r.nextInt());
 #else
 return new java.io.Serializable() {};
 #endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
 System.out.println("There are presently no speed tests for this class.");
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {

```

```

if (cond) return;
fatal(msg);
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static BIG_ARRAY_BIG_LIST topList;

protected
static void testLists(BIG_LIST m, BIG_LIST t, int n, int level) {
 long ms;
 Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds;
 Object rt = null;
 KEY_TYPE rm = KEY_NULL;

 if (level > 4) return;

 /* Now we check that both sets agree on random keys. For m we use the polymorphic method. */

 for(int i = 0; i < n; i++) {
 int p = r.nextInt() % (n * 2);

 KEY_TYPE T = genKey();
 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.set(p, T);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 try {
 t.set(p, KEY2OBJ(T));
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
set() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
 if (mThrowsOutOfBounds == null)
 ensure(t.get(p).equals(KEY2OBJ(m.GET_KEY(p))), "Error (" + level + ", " + seed + "): m and t differ after
set() on position " + p + " (" + m.GET_KEY(p) + ", " + t.get(p) + ")");

 p = r.nextInt() % (n * 2);
 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.GET_KEY(p);

```

```

 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 try {
 t.get(p);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
get() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
 if (mThrowsOutOfBounds == null) ensure(t.get(p).equals(KEY2OBJ(m.GET_KEY(p))), "Error (" + level +
", " + seed + "): m and t differ aftr get() on position " + p + " (" + m.GET_KEY(p) + ", " + t.get(p) + ")");

}

/* Now we check that
both sets agree on random keys. For m we use the standard method. */

for(int i = 0; i < n; i++) {
 int p = r.nextInt() % (n * 2);

 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.get(p);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 try {
 t.get(p);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
get() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
 if (mThrowsOutOfBounds == null) ensure(t.get(p).equals(m.get(p)), "Error (" + level + ", " + seed + "): m and
t differ at start on position " + p + " (" + m.get(p) + ", " + t.get(p) + ")");

}

/* Now we check that m and t are equal. */
if (!m.equals(t) || !t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(
m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

```

```

/* Now we check that m actually holds that data. */
for(Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.listIterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)");
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 ensure(m.contains(T) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in content
between t and m (polymorphic method)");
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 ensure(m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in
content between t and m (polymorphic method)");
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<2*n; i++) {
 KEY_TYPE T = genKey();

 try {
 m.add(T);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

 try {
 t.add(KEY2OBJ(T));
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 T = genKey();
 int p = r.nextInt() % (2 * n + 1);

```

```

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
 m.add(p, T);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

try {
 t.add(p,
KEY2OBJ(T));
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
add() divergence in IndexOutOfBoundsException for index " + p + " for " + T + " (" + mThrowsOutOfBounds + ", "
+ tThrowsOutOfBounds + ")");

p = r.nextInt() % (2 * n + 1);

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
 rm = m.REMOVE_KEY(p);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

try {
 rt = t.remove(p);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
remove() divergence in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
if (mThrowsOutOfBounds == null) ensure(rt.equals(KEY2OBJ(rm)), "Error (" + level + ", "
+ seed + "): divergence in remove() between t and m (" + rt + ", " + rm + ")");
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after add/remove");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after add/remove");

/* Now we add random data in m and t using addAll on a collection, checking that the result is the same. */

for(int i=0; i<n; i++) {
 int p = r.nextInt() % (2 * n + 1);

```

```

java.util.Collection m1 = new java.util.ArrayList();
int s = r.nextInt(n / 2 + 1);
for(int j = 0; j < s; j++) m1.add(KEY2OBJ(genKey()));

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
 m.addAll(p, m1);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

try {
 t.addAll(p, m1);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
addAll()
divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");

ensure(m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals(t) after addAll");
ensure(t.equals(m), "Error (" + level + ", " + seed + m + t + "): ! t.equals(m) after addAll");
}

if (m.size64() > n) {
 m.size(n);
 while(t.size64() != n) t.remove(t.size64() - 1);
}

/* Now we add random data in m and t using addAll on a type-specific collection, checking that the result is the
same. */

for(int i=0; i<n; i++) {
 int p = r.nextInt() % (2 * n + 1);
 COLLECTION m1 = new BIG_ARRAY_BIG_LIST();
 java.util.Collection t1 = new java.util.ArrayList();
 int s = r.nextInt(n / 2 + 1);
 for(int j = 0; j < s; j++) {
 KEY_TYPE x = genKey();
 m1.add(x);
 t1.add(KEY2OBJ(x));
 }

 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.addAll(p, m1);

```

```

 }
 catch (IndexOutOfBoundsException
e) { mThrowsOutOfBounds = e; }

 try {
 t.addAll(p, t1);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
polymorphic addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" +
mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");

 ensure(m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals(t) after polymorphic addAll");
 ensure(t.equals(m), "Error (" + level + ", " + seed + m + t + "): ! t.equals(m) after polymorphic addAll");
}

if (m.size64() > n) {
 m.size(n);
 while(t.size64() != n) t.remove(t.size64() - 1);
}

/* Now we add random data in m and t using addAll on a list, checking that the result is the same. */

for(int i=0; i<n; i++) {
 int p = r.nextInt() % (2 * n + 1);
 BIG_LIST m1 = new BIG_ARRAY_BIG_LIST();
 java.util.Collection
t1 = new java.util.ArrayList();
 int s = r.nextInt(n / 2 + 1);
 for(int j = 0; j < s; j++) {
 KEY_TYPE x = genKey();
 m1.add(x);
 t1.add(KEY2OBJ(x));
 }

 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.addAll(p, m1);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

 try {
 t.addAll(p, t1);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

```

```

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
list addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" +
mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after list addAll");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after list addAll");
}

/* Now we check that both sets agree on random keys. For m we use the standard
method. */

for(int i = 0; i < n; i++) {
 int p = r.nextInt() % (n * 2);

 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.get(p);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 try {
 t.get(p);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
get() divergence in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
 if (mThrowsOutOfBounds == null) ensure(t.get(p).equals(m.get(p)), "Error (" + level + ", " + seed + "): m and
t differ on position " + p + " (" + m.get(p) + ", " + t.get(p) + ")");
}

/* Now we inquiry about the content with indexOf()/lastIndexOf(). */

for(int i=0; i<10*n; i++) {
 KEY_TYPE T = genKey();
 ensure(m.indexOf(KEY2OBJ(T)) == t.indexOf(KEY2OBJ(T)),
 "Error
(" + level + ", " + seed + "): indexOf() divergence for " + T + " (" + m.indexOf(KEY2OBJ(T)) + ", " +
t.indexOf(KEY2OBJ(T)) + ")");
 ensure(m.lastIndexOf(KEY2OBJ(T)) == t.lastIndexOf(KEY2OBJ(T)),
 "Error (" + level + ", " + seed + "): lastIndexOf() divergence for " + T + " (" + m.lastIndexOf(KEY2OBJ(T)) + ",
" + t.lastIndexOf(KEY2OBJ(T)) + ")");
 ensure(m.indexOf(T) == t.indexOf(KEY2OBJ(T)),
 "Error (" + level + ", " + seed + "): polymorphic indexOf() divergence for " + T + " (" + m.indexOf(T) + ", " +
t.indexOf(KEY2OBJ(T)) + ")");
 ensure(m.lastIndexOf(T) == t.lastIndexOf(KEY2OBJ(T)),

```



```

 "Error (" + level + ", " + seed + "): polymorphic lastIndexOf() divergence for " + T + " (" + m.lastIndexOf(T) + ",
" + t.lastIndexOf(KEY2OBJ(T)) + ")");
}

/* Now we check cloning. */

if (level == 0) {
 ensure(m.equals(((BIG_ARRAY_BIG_LIST)m).clone()), "Error (" + level + ", " + seed + "): m does not equal
m.clone()"
);
 ensure(((BIG_ARRAY_BIG_LIST)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not
equal m");
}

/* Now we play with constructors. */
ensure(m.equals(new BIG_ARRAY_BIG_LIST((COLLECTION)m)), "Error (" + level + ", " + seed + "): m does
not equal new (type-specific Collection m)");
ensure((new BIG_ARRAY_BIG_LIST((COLLECTION)m)).equals(m), "Error (" + level + ", " + seed + "): new
(type-specific nCollection m) does not equal m");
ensure(m.equals(new BIG_ARRAY_BIG_LIST((BIG_LIST)m)), "Error (" + level + ", " + seed + "): m does not
equal new (type-specific List m)");
ensure((new BIG_ARRAY_BIG_LIST((BIG_LIST)m)).equals(m), "Error (" + level + ", " + seed + "): new (
type-specific List m) does not equal m");
ensure(m.equals(new BIG_ARRAY_BIG_LIST(m.listIterator())), "Error (" + level + ", " + seed + "): m does not
equal new (m.listIterator())");
ensure((new BIG_ARRAY_BIG_LIST(m.listIterator()
)).equals(m), "Error (" + level + ", " + seed + "): new (m.listIterator()) does not equal m");
ensure(m.equals(new BIG_ARRAY_BIG_LIST(m.iterator())), "Error (" + level + ", " + seed + "): m does not
equal new (m.type_specific_iterator())");
ensure((new BIG_ARRAY_BIG_LIST(m.iterator())).equals(m), "Error (" + level + ", " + seed + "): new (
m.type_specific_iterator()) does not equal m");

int h = m.hashCode();

/* Now we save and read m. */

BIG_LIST m2 = null;

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);

```

```

java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (BIG_LIST)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
 e.printStackTrace();
 System.exit(
1);
}

#if ! #keyclass(Reference)
ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

/* Now we check that m2 actually holds that data. */

ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
/* Now we take out of m everything, and check that it is empty. */

for(Iterator i=t.iterator(); i.hasNext();) m2.remove(i.next());

ensure(m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)");
#endif

/* Now we play with iterators. */

{
 KEY_BIG_LIST_ITERATOR i;
 KEY_BIG_LIST_ITERATOR j;
 Object J;
 i = m.listIterator();
 j = t.listIterator();

 for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()");

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure(i.next().equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next()");

 if (r.nextFloat() < 0.2) {
 i.remove();
 j.remove();
 }
 else if (r.nextFloat() < 0.2) {

```

```

 KEY_TYPE T = genKey();
 i.set(T);
 j.set(KEY2OBJ(T));
}
else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.add(T);
 j.add(KEY2OBJ(T));
}
}
else if (r.nextFloat() < .2 && i.hasPrevious()) {
 ensure(i.previous().equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence in previous()");

 if (r.nextFloat() < 0.2) {
 i.remove();
 j.remove();
 }
 else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.set(T);
 j.set(KEY2OBJ(T));
 }
 else if (
r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.add(T);
 j.add(KEY2OBJ(T));
 }
}

ensure(i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()");
ensure(i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()");

}

}

{
 Object previous = null;
 Object I, J;
 long from = m.isEmpty() ? 0 : (r.nextLong() & 0x7FFFFFFFFFFFFFFFLL) % m.size64();
 KEY_BIG_LIST_ITERATOR i;
 KEY_BIG_LIST_ITERATOR j;
 i = m.listIterator(from);
 j = t.listIterator(from);

 for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting

```

```

point " + from + ")");
 ensure(i.hasPrevious() == j.hasPrevious() , "Error (" + level + ", " + seed + "): divergence in hasPrevious() (iterator
with starting point " + from + ")");

 if (r.nextFloat() < .8 && i.hasNext()
) {
 ensure((I = i.next()).equals(J = j.next()) , "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")");
 //System.err.println("Done next " + I + " " + J + " " + badPrevious);

 if (r.nextFloat() < 0.2) {
 //System.err.println("Removing in next");
 i.remove();
 j.remove();
 }
 else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.set(T);
 j.set(KEY2OBJ(T));
 }
 else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.add(T);
 j.add(KEY2OBJ(T));
 }
 }
 else if (r.nextFloat() < .2 && i.hasPrevious()) {
 ensure((I = i.previous()).equals(J = j.previous()) , "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J + ", iterator with starting point " + from + ")");

 if (r.nextFloat() < 0.2) {
 //System.err.println("Removing in prev");
 i.remove();
 j.remove();
 }
 else
 if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.set(T);
 j.set(KEY2OBJ(T));
 }
 else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.add(T);
 j.add(KEY2OBJ(T));
 }
 }
 }
 }

```

```

}

/* Now we check that m actually holds that data. */

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after iteration");

/* Now we select a pair of keys and create a subset. */

if (! m.isEmpty()) {
 long start = (r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % m.size64();
 long end = start + (r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % (m.size64() - start);
 //System.err.println("Checking subList from " + start + " to " + end + " (level=" + (level+1) + ")...");
 testLists(m.subList(start, end), t.subList(start, end), n, level + 1);

 ensure(m.equals(t), "Error (" +
level + ", " + seed + m + t + "): ! m.equals(t) after subList");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subList");
}

m.clear();
t.clear();
ensure(m.isEmpty(), "Error (" + level + ", " + seed + "): m is not empty after clear()");
}

protected static void test(int n) {
 BIG_ARRAY_BIG_LIST m = new BIG_ARRAY_BIG_LIST();
 BIG_LIST t = BIG_LISTS.asBigList(new ARRAY_LIST());
 topList = m;
 k = new Object[n];
 nk = new Object[n];
 kt = new KEY_TYPE[n];
 nkt = new KEY_TYPE[n];

 for(int i = 0; i < n; i++) {
 #if #keys(reference)
 k[i] = kt[i] = genKey();
 nk[i] = nkt[i] = genKey();
 #else
 k[i] = new KEY_CLASS(kt[i] = genKey());
 nk[i] = new KEY_CLASS(nkt[i] = genKey());
 #endif
 }

 /* We add pairs to t. */

```

```

#if #keys(primitive)
 for(int i = 0; i < n; i++) t.add((KEY_GENERIC_CLASS)k[i]);
#else
 for(int i = 0; i < n; i++) t.add(k[i]);
#endif

/* We add to m the same data */
m.addAll(t);

testLists(
m, t, n, 0);

System.out.println("Test OK");
return;
}

public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}

#endif

}

Found in path(s):
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigArrayBigList.drv
No license file was found, but licenses were detected in source scan.

/*
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*
*/

```

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\*/

```
package PACKAGE;
```

```
#if #keyclass(Object)
import java.util.Comparator;
import it.unimi.dsi.fastutil.IndirectPriorityQueue;
#endif
```

```
import it.unimi.dsi.fastutil.ints.IntArrays;
import it.unimi.dsi.fastutil.AbstractIndirectPriorityQueue;
```

```
import java.util.NoSuchElementException;
```

```
/** A type-specific array-based
 semi-indirect priority queue.
 *
 * <P>Instances of this class use as reference list a reference array,
 * which must be provided to each constructor, and represent a priority queue
 * using a backing array of integer indices—all operations are performed
 * directly on the array. The array is enlarged as needed, but it is never
 * shrunk. Use the { @link #trim()} method to reduce its size, if necessary.
 *
 * <P>This implementation is extremely inefficient, but it is difficult to beat
 * when the size of the queue is very small. Moreover, it allows to enqueue several
 * time the same index, without limitations.
 */
```

```
public class ARRAY_INDIRECT_PRIORITY_QUEUE KEY_GENERIC extends
AbstractIndirectPriorityQueue<KEY_GENERIC_CLASS> implements INDIRECT_PRIORITY_QUEUE
KEY_GENERIC {
```

```
/** The reference array. */
protected KEY_GENERIC_TYPE refArray[];
```

```
/** The backing array. */
protected int array[] = IntArrays.EMPTY_ARRAY;
```

```
/** The number of elements in this queue.
 */
protected int size;
```

```

/** The type-specific comparator used in this queue. */
protected KEY_COMPARATOR KEY_SUPER_GENERIC c;

/** The first index, cached, if { @link #firstIndexValid } is true. */
protected int firstIndex;

/** Whether { @link #firstIndex } contains a valid value. */
protected boolean firstIndexValid;

/** Creates a new empty queue without elements with a given capacity and comparator.
 *
 * @param refArray the reference array.
 * @param capacity the initial capacity of this queue.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
public ARRAY_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray, int capacity,
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 if (capacity > 0) this.array = new int[capacity];
 this.refArray = refArray;
 this.c = c;
}

/** Creates a new empty queue with given capacity and using the natural order.
 *
 * @param refArray the reference array.
 * @param capacity the initial capacity
of this queue.
 */
public ARRAY_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray, int capacity) {
 this(refArray, capacity, null);
}

/** Creates a new empty queue with capacity equal to the length of the reference array and a given comparator.
 *
 * @param refArray the reference array.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
public ARRAY_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray, KEY_COMPARATOR
KEY_SUPER_GENERIC c) {
 this(refArray, refArray.length, c);
}

/** Creates a new empty queue with capacity equal to the length of the reference array and using the natural order.
 * @param refArray the reference array.
 */
public ARRAY_INDIRECT_PRIORITY_QUEUE(KEY_GENERIC_TYPE[] refArray) {
 this(refArray, refArray.length, null);
}

```



```

}

/** Wraps a given array in a queue using a given comparator.
 *
 * <P>The queue returned by this method will be backed by the given array.
 *
 * @param refArray
the reference array.
 * @param a an array of indices into <code>refArray</code>.
 * @param size the number of elements to be included in the queue.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
public ARRAY_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, int size,
final KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(refArray, 0, c);
 this.array = a;
 this.size = size;
}

/** Wraps a given array in a queue using a given comparator.
 *
 * <P>The queue returned by this method will be backed by the given array.
 *
 * @param refArray the reference array.
 * @param a an array of indices into <code>refArray</code>.
 * @param c the comparator used in this queue, or <code>null</code> for the natural order.
 */
public ARRAY_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, final
KEY_COMPARATOR KEY_SUPER_GENERIC c) {
 this(refArray, a, a.length, c);
}

/** Wraps a given array
in a queue using the natural order.
 *
 * <P>The queue returned by this method will be backed by the given array.
 *
 * @param refArray the reference array.
 * @param a an array of indices into <code>refArray</code>.
 * @param size the number of elements to be included in the queue.
 */
public ARRAY_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a, int size)
{
 this(refArray, a, size, null);
}

```

```

/** Wraps a given array in a queue using the natural order.
 *
 * <P>The queue returned by this method will be backed by the given array.
 *
 * @param refArray the reference array.
 * @param a an array of indices into <code>refArray</code>.
 */
public ARRAY_INDIRECT_PRIORITY_QUEUE(final KEY_GENERIC_TYPE[] refArray, final int[] a) {
 this(refArray, a, a.length);
}

/** Returns the index (in { @link #array }) of the smallest element. */

SUPPRESS_WARNINGS_KEY_UNCHECKED
private int findFirst() {
 if (firstIndexValid) return this.firstIndex;
 firstIndexValid
 = true;
 int i = size;
 int firstIndex = --i;
 KEY_GENERIC_TYPE first = refArray[array[firstIndex]];

 if (c == null) while(i-- != 0) { if (KEY_LESS(refArray[array[i]], first)) first = refArray[array[firstIndex = i]]; }
 else while(i-- != 0) { if (c.compare(refArray[array[i]], first) < 0) first = refArray[array[firstIndex = i]]; }

 return this.firstIndex = firstIndex;
}

/** Returns the index (in { @link #array }) of the largest element. */

SUPPRESS_WARNINGS_KEY_UNCHECKED
private int findLast() {
 int i = size;
 int lastIndex = --i;
 KEY_GENERIC_TYPE last = refArray[array[lastIndex]];

 if (c == null) { while(i-- != 0) if (KEY_LESS(last, refArray[array[i]])) last = refArray[array[lastIndex = i]]; }
 else { while(i-- != 0) if (c.compare(last, refArray[array[i]]) < 0) last = refArray[array[lastIndex = i]]; }

 return lastIndex;
}

protected final void ensureNonEmpty() {
 if (size

```

```

== 0) throw new NoSuchElementException();
}

/** Ensures that the given index is a firstIndexValid reference.
 *
 * @param index an index in the reference array.
 * @throws IndexOutOfBoundsException if the given index is negative or larger than the reference array length.
 */
protected void ensureElement(final int index) {
 if (index < 0) throw new IndexOutOfBoundsException("Index (" + index + ") is negative");
 if (index >= refArray.length) throw new IndexOutOfBoundsException("Index (" + index + ") is larger than or
equal to reference array size (" + refArray.length + ")");
}

/** Enqueues a new element.
 *
 * <P>Note that for efficiency reasons this method will not throw an exception
 * when <code>x</code> is already in the queue. However, the queue state will become
 * inconsistent and the following behaviour will not be predictable.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public void enqueue(int x) {
 ensureElement(x);

 if (size == array.length
) array = IntArrays.grow(array, size + 1);
 if (firstIndexValid) {
 if (c == null) { if (KEY_LESS(refArray[x], refArray[array[firstIndex]])) firstIndex = size; }
 else if (c.compare(refArray[x], refArray[array[firstIndex]]) < 0) firstIndex = size;
 }
 else firstIndexValid = false;
 array[size++] = x;
}

public int dequeue() {
 ensureNonEmpty();
 final int firstIndex = findFirst();
 final int result = array[firstIndex];
 if (--size != 0) System.arraycopy(array, firstIndex + 1, array, firstIndex, size - firstIndex);
 firstIndexValid = false;
 return result;
}

public int first() {
 ensureNonEmpty();
 return array[findFirst()];
}

```

```

public int last() {
 ensureNonEmpty();
 return array[findLast()];
}

public void changed() {
 ensureNonEmpty();
 firstIndexValid = false;
}

/** { @inheritDoc }
 *
 * <P>Note that for efficiency reasons this method will not throw an exception
 * when <code>index</code> is not
in the queue.
 */

public void changed(int index) {
 ensureElement(index);
 if (index == firstIndex) firstIndexValid = false;
}

public void allChanged() {
 firstIndexValid = false;
}

public boolean remove(int index) {
 ensureElement(index);
 final int[] a = array;
 int i = size;
 while(i-- != 0) if (a[i] == index) break;
 if (i < 0) return false;
 firstIndexValid = false;
 if (--size != 0) System.arraycopy(a, i + 1, a, i, size - i);
 return true;
}

public int front(int[] a) {
 final KEY_GENERIC_TYPE top = refArray[array[findFirst()]];
 int i = size, c = 0;
 while(i-- != 0) if (KEY_EQUALS_NOT_NULL(top, refArray[array[i]])) a[c++] = array[i];
 return c;
}

public int size() { return size; }

public void clear() { size = 0; firstIndexValid = false; }

```

```

/** Trims the backing array so that it has exactly { @link #size()} elements.
 */

public void trim() {
 array = IntArrays.trim(array, size);
}

public KEY_COMPARATOR
KEY_SUPER_GENERIC comparator() { return c; }

public String toString() {
 StringBuffer s = new StringBuffer();
 s.append("[");
 for (int i = 0; i < size; i++) {
 if (i != 0) s.append(", ");
 s.append(refArray[array [i]]);
 }
 s.append("]");
 return s.toString();
}

#ifdef TEST
private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
 #elif #keys(primitive)
 return r.NEXT_KEY();
 #elif #keyclass(Object)
 return Integer.toString(r.nextInt());
 #else
 return new java.io.Serializable() {};
 #endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return
 format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {

```

```

int i, j, s;
ARRAY_INDIRECT_PRIORITY_QUEUE[] m = new ARRAY_INDIRECT_PRIORITY_QUEUE[100000];
HEAP_INDIRECT_PRIORITY_QUEUE[] t = new HEAP_INDIRECT_PRIORITY_QUEUE[m.length];
KEY_TYPE k[] = new KEY_TYPE[n];
KEY_TYPE nk[] = new KEY_TYPE[m.length];
long ms;

for(i = 0; i < n; i++) k[i] = genKey();
for(i = 0; i < m.length; i++) nk[i] = genKey();

double totEnq = 0, totDeq = 0, totChange = 0, d;

for(i = 0; i < m.length; i++) {
 t[i] = new HEAP_INDIRECT_PRIORITY_QUEUE(k);
 m[i] = new ARRAY_INDIRECT_PRIORITY_QUEUE(k);
}

if (comp) {
 for(j = 0; j < 20; j++) {

 for(i = 0; i < m.length; i++) t[i].clear();

 ms = System.currentTimeMillis();
 s = m.length;
 while(s-- != 0) { i = n; while(i-- != 0) t[s].enqueue(i); }
 d = System.currentTimeMillis() - ms;
 if (j > 2) totEnq += d;
 System.out.print("Enqueue:
" + format(m.length * n/d) + " K/s ");

 ms = System.currentTimeMillis();
 s = m.length;
 while(s-- != 0) { i = n; while(i-- != 0) { k[t[s].first()] = nk[i]; t[s].changed(); } }
 d = System.currentTimeMillis() - ms;
 if (j > 2) totChange += d;
 System.out.print("Change: " + format(m.length * n/d) + " K/s ");

 ms = System.currentTimeMillis();
 s = m.length;
 while(s-- != 0) { i = n; while(i-- != 0) t[s].dequeue(); }
 d = System.currentTimeMillis() - ms;
 if (j > 2) totDeq += d;
 System.out.print("Dequeue: " + format(m.length * n/d) + " K/s ");

 System.out.println();
 }

 System.out.println();
}

```

```

System.out.println("Heap: Enqueue: " + format(m.length * (j-3)*n/totEnq) + " K/s Dequeue: " + format(m.length
* (j-3)*n/totDeq) + " K/s Change: " + format(m.length * (j-3)*n/totChange) + " K/s");

System.out.println();

totEnq = totChange = totDeq = 0;

}

for(j = 0; j < 20; j++) {

 for(
i = 0; i < m.length; i++) m[i].clear();

 ms = System.currentTimeMillis();
 s = m.length;
 while(s-- != 0) { i = n; while(i-- != 0) m[s].enqueue(i); }
 d = System.currentTimeMillis() - ms;
 if (j > 2) totEnq += d;
 System.out.print("Enqueue: " + format(m.length * n/d) + " K/s ");

 ms = System.currentTimeMillis();
 s = m.length;
 while(s-- != 0) { i = n; while(i-- != 0) { k[m[s].first()] = nk[i]; m[s].changed(); } }
 d = System.currentTimeMillis() - ms;
 if (j > 2) totChange += d;
 System.out.print("Change: " + format(m.length * n/d) + " K/s ");

 ms = System.currentTimeMillis();
 s = m.length;
 while(s-- != 0) { i = n; while(i-- != 0) m[s].dequeue(); }
 d = System.currentTimeMillis() - ms;
 if (j > 2) totDeq += d;
 System.out.print("Dequeue: " + format(m.length * n/d) + " K/s ");

 System.out.println();
}

System.out.println();
System.out.println("Array: Enqueue: " + format(
m.length * (j-3)*n/totEnq) + " K/s Dequeue: " + format(m.length * (j-3)*n/totDeq) + " K/s Change: " + format(
m.length * (j-3)*n/totChange) + " K/s");

System.out.println();
}

```

```

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

private static boolean heapEqual(int[] a, int[] b, int sizea, int sizeb) {
 if (sizea != sizeb) return false;
 KEY_TYPE[] aa = new KEY_TYPE[sizea];
 KEY_TYPE[] bb = new KEY_TYPE[sizea];
 for(int i = 0; i < sizea; i++) {
 aa[i] = ref[a[i]];
 bb[i] = ref[b[i]];
 }
 java.util.Arrays.sort(aa);
 java.util.Arrays.sort(bb);
 while(sizea-- != 0) if (!KEY_EQUALS(aa[sizea], bb[sizea])) return false;
 return true;
}

private static KEY_TYPE[] ref;

protected static void test(int n) {
 long ms;
 Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds,
 mThrowsNoElement, tThrowsNoElement;
 int rm = 0, rt = 0;

 ref = new KEY_TYPE[n];

 for(int i = 0; i < n; i++) ref[i] = genKey();

 ARRAY_INDIRECT_PRIORITY_QUEUE m = new ARRAY_INDIRECT_PRIORITY_QUEUE(ref);
 HEAP_INDIRECT_PRIORITY_QUEUE t = new HEAP_INDIRECT_PRIORITY_QUEUE(ref);

 /* We add pairs to t. */
 for(int i = 0; i < n / 2; i++) {
 t.enqueue(i);
 m.enqueue(i);
 }

 ensure(heapEqual(m.array, t.heap, m.size(), t.size()), "Error (" + seed + "): m and t differ after creation (" + m + ",
 " + t + ")");
}

```



```

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<2*n; i++) {
 if (r.nextDouble() < 0.01) {
 t.clear();
 m.clear();
 for(int j = 0; j < n / 2; j++) {
 t.enqueue(j);
 m.enqueue(j);
 }
 }
}

int T = r.nextInt(2 * n);

mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;

try
{
 t.enqueue(T);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }

if (tThrowsIllegal == null) { // To skip duplicates
 try {
 m.enqueue(T);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 catch (IllegalArgumentException e) { mThrowsIllegal = e; }
}

mThrowsIllegal = tThrowsIllegal = null; // To skip duplicates

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): enqueue()
divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds
+ ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): enqueue() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");

ensure(heapEqual(m.array, t.heap, m.size(), t.size()), "Error (" + seed + "): m and t differ after
enqueue (" + m + ", " + t + ")");

if (m.size() != 0) {
 ensure(KEY_EQUALS(ref[m.first()], ref[t.first()]), "Error (" + seed + "): m and t differ in first element after
enqueue (" + m.first() + "->" + ref[m.first()] + ", " + t.first() + "->" + ref[t.first()] + ")");
}

```

```
mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;
```

```
try {
 rm = m.dequeue();
 while(! m.isEmpty() && KEY_EQUALS(ref[m.first()], ref[rm])) m.dequeue();
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { mThrowsIllegal = e; }
catch (java.util.NoSuchElementException e) { mThrowsNoElement = e; }
```

```
try {
 rt = t.dequeue();
 while(! t.isEmpty() && KEY_EQUALS(ref[t.first()], ref[rt])) t.dequeue();
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal =
e; }
catch (java.util.NoSuchElementException e) { tThrowsNoElement = e; }
```

```
ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): dequeue()
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): dequeue() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
ensure((mThrowsNoElement == null) == (tThrowsNoElement == null), "Error (" + seed + "): dequeue()
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
if (mThrowsOutOfBounds == null) ensure(KEY_EQUALS(ref[rt], ref[rm]), "Error (" + seed + "): divergence
in dequeue() between m and t (" + rm + "->" + ref[rm] + ", " + rt + "->" + ref[rt] + ")");
```

```
ensure(heapEqual(m.array, t.heap, m.size(), t.size()), "Error (" + seed + "): m and t
differ after dequeue (" + m + ", " + t + ")");
```

```
if (m.size() != 0) {
 ensure(KEY_EQUALS(ref[m.first()], ref[t.first()]), "Error (" + seed + "): m and t differ in first element after
dequeue (" + m.first() + "->" + ref[m.first()] + ", " + t.first() + "->" + ref[t.first()] + ")");
}
}
```

```
mThrowsNoElement = tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal =
tThrowsIllegal = null;
```

```
int pos = r.nextInt(n * 2);
```

```
try {
 m.remove(pos);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
```

```

catch (IllegalArgumentException e) { mThrowsIllegal = e; }
catch (java.util.NoSuchElementException e) { mThrowsNoElement = e; }

try {
 t.remove(pos);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }
catch (java.util.NoSuchElementException e) { tThrowsNoElement = e; }

ensure((mThrowsOutOfBounds == null) == (
tThrowsOutOfBounds == null), "Error (" + seed + "): remove(int) divergence in IndexOutOfBoundsException (" +
mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): remove(int) divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
ensure((mThrowsNoElement == null) == (tThrowsNoElement == null), "Error (" + seed + "): remove(int)
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

ensure(heapEqual(m.array, t.heap, m.size(), t.size()), "Error (" + seed + "): m and t differ after remove(int) (" + m
+ ", " + t + ")");

if (m.size() != 0) {
 ensure(KEY_EQUALS(ref[m.first()], ref[t.first()]), "Error (" + seed + "): m and t differ in first element after
remove(int) (" + m.first() + "->" + ref[m.first()] + ", " + t.first() + "->" + ref[t.first()] + ")");
}

mThrowsNoElement
= tThrowsNoElement = mThrowsOutOfBounds = tThrowsOutOfBounds = mThrowsIllegal = tThrowsIllegal = null;

pos = r.nextInt(n);

try {
 t.changed(pos);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }
catch (IllegalArgumentException e) { tThrowsIllegal = e; }
catch (java.util.NoSuchElementException e) { tThrowsNoElement = e; }

if (tThrowsIllegal == null) {
 try {
 m.changed(pos);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 catch (IllegalArgumentException e) { mThrowsIllegal = e; }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = e; }
}

```

```

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + seed + "): change(int)
divergence in IndexOutOfBoundsException (" + mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");
//ensure((mThrowsIllegal == null) == (tThrowsIllegal == null), "Error (" + seed + "): change(int) divergence
in IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
ensure((mThrowsNoElement == null) == (tThrowsNoElement == null), "Error (" + seed + "): change(int)
divergence in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

ensure(heapEqual(m.array, t.heap, m.size(), t.size()), "Error (" + seed + "): m and t differ after change(int) (" + m +
", " + t + ")");

if (m.size() != 0) {
ensure(KEY_EQUALS(ref[m.first()], ref[t.first()]), "Error (" + seed + "): m and t differ in first element after
change(int) (" + m.first() + "->" + ref[m.first()] + ", " + t.first() + "->" + ref[t.first()] + ")");
}

int[] temp = (int[])t.heap.clone();
java.util.Arrays.sort(temp, 0, t.size()); // To scramble a bit
m = new ARRAY_INDIRECT_PRIORITY_QUEUE(m.refArray, temp, t.size());

ensure(heapEqual(m.array, t.heap, m.size(), t.size()), "Error (" + seed + "): m and t differ after wrap (" + m
+ ", " + t + ")");

if (m.size() != 0) {
ensure(KEY_EQUALS(ref[m.first()], ref[t.first()]), "Error (" + seed + "): m and t differ in first element after
wrap (" + m.first() + "->" + ref[m.first()] + ", " + t.first() + "->" + ref[t.first()] + ")");
}

if (m.size() != 0 && ((new it.unimi.dsi.fastutil.ints.IntOpenHashSet(m.array, 0, m.size)).size() == m.size())) {

int first = m.first();
ref[first] = genKey();

//System.err.println("Pre-change m: " +m);
//System.err.println("Pre-change t: " +t);
m.changed();
t.changed(first);

//System.err.println("Post-change m: " +m);
//System.err.println("Post-change t: " +t);

ensure(heapEqual(m.array, t.heap, m.size(), t.size()), "Error (" + seed + "): m and t differ after change (" + m + ", "
+ t + ")");

if (m.size() != 0) {
ensure(KEY_EQUALS(ref[m.first()], ref[t.first()]), "Error (" + seed + "): m and t differ in first element after
change
(" + m.first() + "->" + ref[m.first()] + ", " + t.first() + "->" + ref[t.first()] + ")");
}
}

```

```

 }
}

/* Now we check that m actually holds the same data. */

m.clear();
ensure(m.isEmpty(), "Error (" + seed + "): m is not empty after clear()");

System.out.println("Test OK");
}

public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}

#endif
}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/ArrayIndirectPriorityQueue.drv

```

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

```

/*
* Copyright (C) 2002-2015 Sebastiano Vigna
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```

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\* limitations under the License.  
\*/

```
package PACKAGE;
```

```
import java.util.Collection;
import java.util.Comparator;
import java.util.Iterator;
import java.util.SortedSet;
import java.util.NoSuchElementException;
```

```
/** A type-specific AVL tree set with a fast, small-footprint implementation.
```

```
*
```

```
* <P>The iterators provided by this class are type-specific
```

```
{ @link
```

```
* it.unimi.dsi.fastutil.BidirectionalIterator bidirectional iterators}.
```

```
* Moreover, the iterator returned by iterator() can be safely cast
```

```
* to a type-specific { @link java.util.ListIterator list iterator}.
```

```
*/
```

```
public class AVL_TREE_SET KEY_GENERIC extends ABSTRACT_SORTED_SET KEY_GENERIC
implements java.io.Serializable, Cloneable, SORTED_SET KEY_GENERIC {
```

```
/** A reference to the root entry. */
```

```
protected transient Entry KEY_GENERIC tree;
```

```
/** Number of elements in this set. */
```

```
protected int count;
```

```
/** The entry of the first element of this set. */
```

```
protected transient Entry KEY_GENERIC firstEntry;
```

```
/** The entry of the last element of this set. */
```

```
protected transient Entry KEY_GENERIC lastEntry;
```

```
/** This set's comparator, as provided in the constructor. */
```

```
protected Comparator<? super KEY_GENERIC_CLASS> storedComparator;
```

```
/** This set's actual comparator; it may differ from { @link #storedComparator} because it is
always a type-specific comparator,
```

```
so it could be derived from the former by wrapping. */
```

```
protected transient KEY_COMPARATOR KEY_SUPER_GENERIC actualComparator;
```

```
private static final long serialVersionUID = -7046029254386353130L;
```

```
private static final boolean ASSERTS = ASSERTS_VALUE;
```

```

{
 allocatePaths();
}

/** Creates a new empty tree set.
 */

public AVL_TREE_SET() {
 tree = null;
 count = 0;
}

/** Generates the comparator that will be actually used.
 *
 * <P>When a specific {@link Comparator} is specified and stored in {@link
 * #storedComparator}, we must check whether it is type-specific. If it is
 * so, we can use it directly, and we store it in {@link #actualComparator}. Otherwise,
 * we generate on-the-fly an anonymous class that wraps the non-specific {@link Comparator}
 * and makes it into a type-specific one.
 */
private void setActualComparator() {
 #if #keyclass(Object)
 actualComparator = storedComparator;
 #else
 /* If the provided comparator is already type-specific, we use it.
 Otherwise,
 we use a wrapper anonymous class to fake that it is type-specific. */
 if (storedComparator == null || storedComparator instanceof KEY_COMPARATOR) actualComparator =
 (KEY_COMPARATOR)storedComparator;
 else actualComparator = new KEY_COMPARATOR KEY_GENERIC() {
 public int compare(KEY_GENERIC_TYPE k1, KEY_GENERIC_TYPE k2) {
 return storedComparator.compare(KEY2OBJ(k1), KEY2OBJ(k2));
 }
 public int compare(KEY_CLASS ok1, KEY_CLASS ok2) {
 return storedComparator.compare(ok1, ok2);
 }
 };
 #endif
}

/** Creates a new empty tree set with the given comparator.
 *
 * @param c a {@link Comparator} (even better, a type-specific comparator).
 */

public AVL_TREE_SET(final Comparator<? super KEY_GENERIC_CLASS> c) {

```

```

this();
storedComparator = c;
setActualComparator();
}

/** Creates a new tree set copying a given set.
 *
 * @param c a collection to be copied into the new tree set.
 */

public AVL_TREE_SET(final Collection<?
extends KEY_GENERIC_CLASS> c) {
this();
addAll(c);
}

/** Creates a new tree set copying a given sorted set (and its {@link Comparator}).
 *
 * @param s a {@link SortedSet} to be copied into the new tree set.
 */

public AVL_TREE_SET(final SortedSet <KEY_GENERIC_CLASS> s) {
this(s.comparator());
addAll(s);
}

/** Creates a new tree set copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new tree set.
 */

public AVL_TREE_SET(final COLLECTION KEY_EXTENDS_GENERIC c) {
this();
addAll(c);
}

/** Creates a new tree set copying a given type-specific sorted set (and its {@link Comparator}).
 *
 * @param s a type-specific sorted set to be copied into the new tree set.
 */

public AVL_TREE_SET(final SORTED_SET KEY_GENERIC s) {
this(s.comparator());
addAll(s);
}

```



```

/** Creates a new tree set using elements provided by a type-specific iterator.
 *
 * @param i a type-specific
iterator whose elements will fill the set.
 */

public AVL_TREE_SET(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i) {
 while(i.hasNext()) add(i.NEXT_KEY());
}

#if #keys(primitive)

/** Creates a new tree set using elements provided by an iterator.
 *
 * @param i an iterator whose elements will fill the set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public AVL_TREE_SET(final Iterator<?> i) {
 this(ITERATORS.AS_KEY_ITERATOR(i));
}

#endif

/** Creates a new tree set and fills it with the elements of a given array using a given { @link Comparator }.
 *
 * @param a an array whose elements will be used to fill the set.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 * @param c a { @link Comparator } (even better, a type-specific comparator).
 */

public AVL_TREE_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length, final Comparator<?
super KEY_GENERIC_CLASS> c) {
 this(c);
 ARRAYS.ensureOffsetLength(
a, offset, length);
 for(int i = 0; i < length; i++) add(a[offset + i]);
}

/** Creates a new tree set and fills it with the elements of a given array.
 *
 * @param a an array whose elements will be used to fill the set.
 * @param offset the first element to use.
 * @param length the number of elements to use.
 */

```

```
public AVL_TREE_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length) {
 this(a, offset, length, null);
}
```

```
/** Creates a new tree set copying the elements of an array.
```

```
*
```

```
* @param a an array to be copied into the new tree set.
```

```
*/
```

```
public AVL_TREE_SET(final KEY_GENERIC_TYPE[] a) {
 this();
 int i = a.length;
 while(i-- != 0) add(a[i]);
}
```

```
/** Creates a new tree set copying the elements of an array using a given { @link Comparator}.
```

```
*
```

```
* @param a an array to be copied into the new tree set.
```

```
* @param c a { @link Comparator} (even better, a type-specific comparator).
```

```
*/
```

```
public AVL_TREE_SET(final KEY_GENERIC_TYPE[]
a, final Comparator<? super KEY_GENERIC_CLASS> c) {
 this(c);
 int i = a.length;
 while(i-- != 0) add(a[i]);
}
```

```
/*
```

```
* The following methods implements some basic building blocks used by
```

```
* all accessors. They are (and should be maintained) identical to those used in AVLTreeMap.drv.
```

```
*
```

```
* The add()/remove() code is derived from Ben Pfaff's GNU libavl
```

```
* (http://www.msu.edu/~pfaffben/avl/). If you want to understand what's
```

```
* going on, you should have a look at the literate code contained therein
```

```
* first.
```

```
*/
```

```
/** Compares two keys in the right way.
```

```
*
```

```
* <P>This method uses the { @link #actualComparator} if it is non-null.
```

```
* Otherwise, it resorts to primitive type comparisons or to { @link Comparable#compareTo(Object) compareTo()}.
```

```

*
* @param k1 the first key.
* @param k2 the second key.
* @return a number smaller than, equal to or greater than 0, as usual
* (i.e., when k1 < k2, k1 = k2 or k1 > k2, respectively).
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
final int compare(final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2) {
 return actualComparator == null ? KEY_CMP(k1, k2) : actualComparator.compare(k1, k2);
}

/** Returns the entry corresponding to the given key, if it is in the tree; <code>null</code>, otherwise.
*
* @param k the key to search for.
* @return the corresponding entry, or <code>null</code> if no entry with the given key exists.
*/

private Entry KEY_GENERIC findKey(final KEY_GENERIC_TYPE k) {
 Entry KEY_GENERIC e = tree;
 int cmp;

 while (e != null && (cmp = compare(k, e.key)) != 0)
 e = cmp < 0 ? e.left() : e.right();

 return e;
}

/** Locates a key.
*
* @param k a key.
* @return the last entry on a search for the given key; this will be
* the given key, if it present; otherwise, it will be either the smallest greater key or the greatest smaller key.
*/

final Entry KEY_GENERIC locateKey(final KEY_GENERIC_TYPE k
) {
 Entry KEY_GENERIC e = tree, last = tree;
 int cmp = 0;

 while (e != null && (cmp = compare(k, e.key)) != 0) {
 last = e;
 e = cmp < 0 ? e.left() : e.right();
 }
}

```

```

return cmp == 0 ? e : last;
}

/** This vector remembers the path followed during the current insertion. It suffices for
about 2³² entries. */
private transient boolean dirPath[];

private void allocatePaths() {
 dirPath = new boolean[48];
}

public boolean add(final KEY_GENERIC_TYPE k) {

 if (tree == null) { // The case of the empty tree is treated separately.
 count++;
 tree = lastEntry = firstEntry = new Entry KEY_GENERIC(k);
 }
 else {
 Entry KEY_GENERIC p = tree, q = null, y = tree, z = null, e = null, w = null;
 int cmp, i = 0;

 while(true) {
 if ((cmp = compare(k, p.key)) == 0) return false;

 if (p.balance() != 0) {
 i = 0;
 z = q;
 y = p;
 }

 if (dirPath[i++] = cmp > 0) {
 if (p.succ()) {
 count++;
 e
= new Entry KEY_GENERIC(k);

 if (p.right == null) lastEntry = e;

 e.left = p;
 e.right = p.right;

 p.right(e);

 break;
 }
 }
 }
 }
}

```

```

q = p;
p = p.right;
}
else {
if (p.pred()) {
count++;
e = new Entry KEY_GENERIC(k);

if (p.left == null) firstEntry = e;

e.right = p;
e.left = p.left;

p.left(e);

break;
}

q = p;
p = p.left;
}
}

p = y;
i = 0;

while(p != e) {
if (dirPath[i]) p.incBalance();
else p.decBalance();

p = dirPath[i++] ? p.right : p.left;
}

if (y.balance() == -2) {
Entry KEY_GENERIC x = y.left;

if (x.balance() == -1) {
w = x;
if (x.succ()) {
x.succ(false);
y.pred(x);
}
else y.left = x.right;

x.right = y;
x.balance(0);
y.balance(0);
}
}

```

```

else {
 if (ASSERTS
) assert x.balance() == 1;

 w = x.right;
 x.right = w.left;
 w.left = x;
 y.left = w.right;
 w.right = y;
 if (w.balance() == -1) {
 x.balance(0);
 y.balance(1);
 }
 else if (w.balance() == 0) {
 x.balance(0);
 y.balance(0);
 }
 else {
 x.balance(-1);
 y.balance(0);
 }
 w.balance(0);

 if (w.pred()) {
 x.succ(w);
 w.pred(false);
 }
 if (w.succ()) {
 y.pred(w);
 w.succ(false);
 }

}
}
else if (y.balance() == +2) {
 Entry KEY_GENERIC x = y.right;

 if (x.balance() == 1) {
 w = x;
 if (x.pred()) {
 x.pred(false);
 y.succ(x);
 }
 else y.right = x.left;

 x.left = y;
 x.balance(0);

```

```

y.balance(0);
}
else {
if (ASSERTS) assert x.balance() == -1;

w = x.left;
x.left = w.right;
w.right = x;
y.right = w.left;
w.left = y;
if (w.balance() ==
1) {
x.balance(0);
y.balance(-1);
}
else if (w.balance() == 0) {
x.balance(0);
y.balance(0);
}
else {
x.balance(1);
y.balance(0);
}
w.balance(0);

if (w.pred()) {
y.succ(w);
w.pred(false);
}
if (w.succ()) {
x.pred(w);
w.succ(false);
}

}
}
else return true;

if (z == null) tree = w;
else {
if (z.left == y) z.left = w;
else z.right = w;
}
}

if (ASSERTS) checkTree(tree);
return true;

```

```
}
```

```
/** Finds the parent of an entry.
```

```
*
```

```
* @param e a node of the tree.
```

```
* @return the parent of the given node, or <code>null</code> for the root.
```

```
*/
```

```
private Entry KEY_GENERIC parent(final Entry KEY_GENERIC e) {
 if (e == tree) return null;
```

```
 Entry KEY_GENERIC x, y, p;
```

```
 x = y = e;
```

```
 while(true) {
```

```
 if (y.succ()) {
```

```
 p = y.right;
```

```
 if (p == null || p.left != e) {
```

```
 while(! x.pred()) x =
```

```
x.left;
```

```
 p = x.left;
```

```
 }
```

```
 return p;
```

```
 }
```

```
 else if (x.pred()) {
```

```
 p = x.left;
```

```
 if (p == null || p.right != e) {
```

```
 while(! y.succ()) y = y.right;
```

```
 p = y.right;
```

```
 }
```

```
 return p;
```

```
 }
```

```
 x = x.left;
```

```
 y = y.right;
```

```
 }
```

```
}
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
public boolean remove(final KEY_TYPE k) {
```

```
 if (tree == null) return false;
```

```
 int cmp;
```

```
 Entry KEY_GENERIC p = tree, q = null;
```



```

boolean dir = false;
final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;

while(true) {
if ((cmp = compare(kk, p.key)) == 0) break;
else if (dir = cmp > 0) {
q = p;
if ((p = p.right()) == null) return false;
}
else {
q = p;
if ((p = p.left()) == null) return false;
}
}

if (p.left == null) firstEntry = p.next();
if (p.right == null) lastEntry = p.prev();

if (p.succ()) {
if (p.pred()) {
if (q != null) {
if (dir) q.succ(p.right);
else q.pred(p.left);
}
else tree = dir ? p.right
: p.left;
}
else {
p.prev().right = p.right;

if (q != null) {
if (dir) q.right = p.left;
else q.left = p.left;
}
else tree = p.left;
}
}
else {
Entry KEY_GENERIC r = p.right;

if (r.pred()) {
r.left = p.left;
r.pred(p.pred());
if (! r.pred()) r.prev().right = r;
if (q != null) {
if (dir) q.right = r;
else q.left = r;
}
}
}
}

```

```

else tree = r;

r.balance(p.balance());
q = r;
dir = true;

}
else {
Entry KEY_GENERIC s;

while(true) {
s = r.left;
if (s.pred()) break;
r = s;
}

if (s.succ()) r.pred(s);
else r.left = s.right;

s.left = p.left;

if (! p.pred()) {
p.prev().right = s;
s.pred(false);
}

s.right = p.right;
s.succ(false);

if (q != null) {
if (dir) q.right = s;
else q.left = s;
}
else tree = s;

s.balance(p.balance());
q = r;
dir = false;
}
}

Entry
KEY_GENERIC y;

while(q != null) {
y = q;
q = parent(y);
}

```

```

if (! dir) {
 dir = q != null && q.left != y;
 y.incBalance();

 if (y.balance() == 1) break;
 else if (y.balance() == 2) {

 Entry KEY_GENERIC x = y.right;
 if (ASSERTS) assert x != null;

 if (x.balance() == -1) {
 Entry KEY_GENERIC w;

 if (ASSERTS) assert x.balance() == -1;

 w = x.left;
 x.left = w.right;
 w.right = x;
 y.right = w.left;
 w.left = y;

 if (w.balance() == 1) {
 x.balance(0);
 y.balance(-1);
 }
 else if (w.balance() == 0) {
 x.balance(0);
 y.balance(0);
 }
 else {
 if (ASSERTS) assert w.balance() == -1;

 x.balance(1);
 y.balance(0);
 }

 w.balance(0);

 if (w.pred()) {
 y.succ(w);
 w.pred(false);
 }
 if (w.succ()) {
 x.pred(w);
 w.succ(false);
 }

 if

```

```

(q != null) {
 if (dir) q.right = w;
 else q.left = w;
 }
else tree = w;
}
else {
 if (q != null) {
 if (dir) q.right = x;
 else q.left = x;
 }
 else tree = x;

 if (x.balance() == 0) {
 y.right = x.left;
 x.left = y;
 x.balance(-1);
 y.balance(+1);
 break;
 }

 if (ASSERTS) assert x.balance() == 1;

 if (x.pred()) {
 y.succ(true);
 x.pred(false);
 }
 else y.right = x.left;

 x.left = y;
 y.balance(0);
 x.balance(0);
 }
}
}
else {
 dir = q != null && q.left != y;
 y.decBalance();

 if (y.balance() == -1) break;
 else if (y.balance() == -2) {

 Entry KEY_GENERIC x = y.left;
 if (ASSERTS) assert x != null;

 if (x.balance() == 1) {
 Entry KEY_GENERIC w;

```

```

if (ASSERTS) assert x.balance() == 1;

w = x.right;
x.right
= w.left;
w.left = x;
y.left = w.right;
w.right = y;

if (w.balance() == -1) {
x.balance(0);
y.balance(1);
}
else if (w.balance() == 0) {
x.balance(0);
y.balance(0);
}
else {
if (ASSERTS) assert w.balance() == 1;

x.balance(-1);
y.balance(0);
}

w.balance(0);

if (w.pred()) {
x.succ(w);
w.pred(false);
}
if (w.succ()) {
y.pred(w);
w.succ(false);
}

if (q != null) {
if (dir) q.right = w;
else q.left = w;
}
else tree = w;
}
else {
if (q != null) {
if (dir) q.right = x;
else q.left = x;
}
else tree = x;
}

```

```

 if (x.balance() == 0) {
 y.left = x.right;
 x.right = y;
 x.balance(+1);
 y.balance(-1);
 break;
 }

 if (ASSERTS) assert x.balance() == -1;

 if
(x.succ()) {
 y.pred(true);
 x.succ(false);
 }
 else y.left = x.right;

 x.right = y;
 y.balance(0);
 x.balance(0);
}
}
}
}

count--;
if (ASSERTS) checkTree(tree);
return true;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean contains(final KEY_TYPE k) {
 return findKey(KEY_GENERIC_CAST k) != null;
}

#if #keyclass(Object)
SUPPRESS_WARNINGS_KEY_UNCHECKED
public K get(final KEY_TYPE k) {
 final Entry KEY_GENERIC entry = findKey(KEY_GENERIC_CAST k);
 return entry == null ? null : entry.key;
}
#endif

public void clear() {
 count = 0;
 tree = null;
 firstEntry = lastEntry = null;
}

```

```

/** This class represent an entry in a tree set.
 *
 * <P>We use the only "metadata", i.e., {@link Entry#info}, to store
 * information about balance, predecessor status and successor status.
 *
 * <P>Note that since the class is recursive, it can be
 * considered equivalently a tree.
 */

private static
final class Entry KEY_GENERIC implements Cloneable {
 /** If the bit in this mask is true, {@link #right} points to a successor. */
 private final static int SUCC_MASK = 1 << 31;
 /** If the bit in this mask is true, {@link #left} points to a predecessor. */
 private final static int PRED_MASK = 1 << 30;
 /** The bits in this mask hold the node balance info. You can get it just by casting to byte. */
 private final static int BALANCE_MASK = 0xFF;
 /** The key of this entry. */
 KEY_GENERIC_TYPE key;
 /** The pointers to the left and right subtrees. */
 Entry KEY_GENERIC left, right;
 /** This integers holds different information in different bits (see {@link #SUCC_MASK}, {@link
#PRED_MASK} and {@link #BALANCE_MASK}). */
 int info;

 Entry() {}

 /** Creates a new entry with the given key.
 *
 * @param k a key.
 */
 Entry(final KEY_GENERIC_TYPE k) {
 this.key = k;
 info = SUCC_MASK | PRED_MASK;
 }

 /** Returns the left subtree.
 *
 * @return
the left subtree (<code>null</code> if the left
 * subtree is empty).
 */
 Entry KEY_GENERIC left() {
 return (info & PRED_MASK) != 0 ? null : left;
 }
}

```

```

/** Returns the right subtree.
 *
 * @return the right subtree (<code>>null</code> if the right
 * subtree is empty).
 */
Entry KEY_GENERIC right() {
 return (info & SUCC_MASK) != 0 ? null : right;
}

/** Checks whether the left pointer is really a predecessor.
 * @return true if the left pointer is a predecessor.
 */
boolean pred() {
 return (info & PRED_MASK) != 0;
}

/** Checks whether the right pointer is really a successor.
 * @return true if the right pointer is a successor.
 */
boolean succ() {
 return (info & SUCC_MASK) != 0;
}

/** Sets whether the left pointer is really a predecessor.
 * @param pred if true then the left pointer will be considered a predecessor.
 */
void pred(final boolean pred) {
 if (pred) info |= PRED_MASK;
 else info &=
~PRED_MASK;
}

/** Sets whether the right pointer is really a successor.
 * @param succ if true then the right pointer will be considered a successor.
 */
void succ(final boolean succ) {
 if (succ) info |= SUCC_MASK;
 else info &= ~SUCC_MASK;
}

/** Sets the left pointer to a predecessor.
 * @param pred the predecessr.
 */
void pred(final Entry KEY_GENERIC pred) {
 info |= PRED_MASK;
 left = pred;
}

```



```

/** Sets the right pointer to a successor.
 * @param succ the successor.
 */
void succ(final Entry KEY_GENERIC succ) {
 info |= SUCC_MASK;
 right = succ;
}

/** Sets the left pointer to the given subtree.
 * @param left the new left subtree.
 */
void left(final Entry KEY_GENERIC left) {
 info &= ~PRED_MASK;
 this.left = left;
}

/** Sets the right pointer to the given subtree.
 * @param right the new right subtree.
 */
void right(final Entry KEY_GENERIC right) {
 info &= ~SUCC_MASK;
 this.right
= right;
}

/** Returns the current level of the node.
 * @return the current level of this node.
 */
int balance() {
 return (byte)info;
}

/** Sets the level of this node.
 * @param level the new level of this node.
 */
void balance(int level) {
 info &= ~BALANCE_MASK;
 info |= (level & BALANCE_MASK);
}

/** Increments the level of this node. */
void incBalance() {
 info = info & ~BALANCE_MASK | ((byte)info + 1) & 0xFF;
}

/** Decrements the level of this node. */
protected void decBalance() {
 info = info & ~BALANCE_MASK | ((byte)info - 1) & 0xFF;
}

```

```

}

/** Computes the next entry in the set order.
 *
 * @return the next entry (<code>>null</code>) if this is the last entry).
 */

Entry KEY_GENERIC next() {
 Entry KEY_GENERIC next = this.right;
 if ((info & SUCC_MASK) == 0) while ((next.info & PRED_MASK) == 0) next = next.left;
 return next;
}

/** Computes the previous entry in the set order.
 *
 * @return the previous entry (<code>>null</code>) if this is the first entry).
 */

Entry KEY_GENERIC prev() {
 Entry KEY_GENERIC prev = this.left;
 if ((info & PRED_MASK) == 0) while ((prev.info & SUCC_MASK) == 0) prev = prev.right;
 return prev;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public Entry KEY_GENERIC clone() {
 Entry KEY_GENERIC c;
 try {
 c = (Entry KEY_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.key = key;
 c.info = info;

 return c;
}

public boolean equals(final Object o) {
 if (!(o instanceof Entry)) return false;
 Entry KEY_GENERIC_WILDCARD e = (Entry KEY_GENERIC_WILDCARD)o;

 return KEY_EQUALS(key, e.key);
}

```

```

public int hashCode() {
 return KEY2JAVAHASH_NOT_NULL(key);
}

```

```

public String toString() {
 return String.valueOf(key);
}

```

```

/*

```

```

 public void prettyPrint() {
 prettyPrint(0);
 }

```

```

 public void
prettyPrint(int level) {
 if (pred()) {
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println("pred: " + left);
 }
 else if (left != null)
 left.prettyPrint(level +1);
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println(key + " (" + level() + ")");
 if (succ()) {
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println("succ: " + right);
 }
 else if (right != null)
 right.prettyPrint(level + 1);
 }
}
*/

```

```

/*

```

```

 public void prettyPrint() {
 System.err.println("size: " + count);
 if (tree != null) tree.prettyPrint();
 }
}
*/

```

```

public int size() {
 return count;
}

```

```

public boolean isEmpty() {
 return count == 0;
}

public KEY_GENERIC_TYPE FIRST() {
 if (tree == null) throw new NoSuchElementException();
 return firstEntry.key;
}

public KEY_GENERIC_TYPE LAST() {
 if (tree == null) throw new NoSuchElementException();
 return
lastEntry.key;
}

/** An iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class SetIterator extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC {
 /** The entry that will be returned by the next call to { @link java.util.ListIterator#previous()} (or
<code>>null</code> if no previous entry exists). */
 Entry KEY_GENERIC prev;
 /** The entry that will be returned by the next call to { @link java.util.ListIterator#next()} (or <code>>null</code> if
no next entry exists). */
 Entry KEY_GENERIC next;
 /** The last entry that was returned (or <code>>null</code> if we did not iterate or used { @link #remove()}). */
 Entry KEY_GENERIC curr;
 /** The current index (in the sense of a { @link java.util.ListIterator}). Note that this value is not meaningful when
this { @link SetIterator} has been created using the nonempty constructor.*/
 int index = 0;

 SetIterator() {
 next = firstEntry;
 }

 SetIterator(final KEY_GENERIC_TYPE
k) {
 if ((next = locateKey(k)) != null) {
 if (compare(next.key, k) <= 0) {
 prev = next;
 next = next.next();
 }
 else prev = next.prev();
 }
 }
}

```

```

public boolean hasNext() { return next != null; }
public boolean hasPrevious() { return prev != null; }

void updateNext() {
 next = next.next();
}

Entry KEY_GENERIC nextEntry() {
 if (! hasNext()) throw new NoSuchElementException();
 curr = prev = next;
 index++;
 updateNext();
 return curr;
}

public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key; }
public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }

void updatePrevious() {
 prev = prev.prev();
}

Entry KEY_GENERIC previousEntry() {
 if (! hasPrevious()) throw new NoSuchElementException();
 curr = next = prev;
 index--;
 updatePrevious();
 return curr;
}

public int nextIndex() {
 return index;
}

public int previousIndex() {
 return index - 1;
}

public void
remove() {
 if (curr == null) throw new IllegalStateException();
 /* If the last operation was a next(), we are removing an entry that precedes
 the current index, and thus we must decrement it. */
 if (curr == prev) index--;
 next = prev = curr;
 updatePrevious();
 updateNext();
}

```

```

 AVL_TREE_SET.this.remove(curr.key);
 curr = null;
}
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() {
 return new SetIterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) {
 return new SetIterator(from);
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
 return actualComparator;
}

public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_TYPE to) {
 return new Subset(KEY_NULL, true, to, false);
}

public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_TYPE from) {
 return new Subset(from, false, KEY_NULL, true);
}

public SORTED_SET KEY_GENERIC subSet(final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to
) {
 return new Subset(from, false, to, false);
}

/** A subset with given range.
 *
 * <P>This class represents a subset. One has to specify the left/right
 * limits (which can be set to $-\infty$; or ∞). Since the subset is a
 * view on the set, at a given moment it could happen that the limits of
 * the range are not any longer in the main set. Thus, things such as
 * { @link java.util.SortedSet#first() } or { @link java.util.SortedSet#size() } must be always computed
 * on-the-fly.
 */
private final class Subset extends ABSTRACT_SORTED_SET KEY_GENERIC implements java.io.Serializable,
SORTED_SET KEY_GENERIC {
 private static final long serialVersionUID = -7046029254386353129L;

 /** The start of the subset range, unless { @link #bottom } is true. */

```

```

KEY_GENERIC_TYPE from;
/** The end of the subset range, unless { @link #top } is true. */
KEY_GENERIC_TYPE to;
/** If true, the subset range starts from -∞. */
boolean bottom;
/** If true, the subset
range goes to ∞. */
boolean top;

/** Creates a new subset with given key range.
 *
 * @param from the start of the subset range.
 * @param bottom if true, the first parameter is ignored and the range starts from -∞.
 * @param to the end of the subset range.
 * @param top if true, the third parameter is ignored and the range goes to ∞.
 */
public Subset(final KEY_GENERIC_TYPE from, final boolean bottom, final KEY_GENERIC_TYPE to, final
boolean top) {
 if (! bottom && ! top && AVL_TREE_SET.this.compare(from, to) > 0) throw new IllegalArgumentException(
"Start element (" + from + ") is larger than end element (" + to + ")");

 this.from = from;
 this.bottom = bottom;
 this.to = to;
 this.top = top;
}

public void clear() {
 final SubsetIterator i = new SubsetIterator();
 while(i.hasNext()) {
 i.NEXT_KEY();
 i.remove();
 }
}

/** Checks whether a key is in the subset range.
 * @param k a key.
 * @return
true if is the key is in the subset range.
 */
final boolean in(final KEY_GENERIC_TYPE k) {
 return (bottom || AVL_TREE_SET.this.compare(k, from) >= 0) &&
(top || AVL_TREE_SET.this.compare(k, to) < 0);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean contains(final KEY_TYPE k) {
 return in(KEY_GENERIC_CAST k) && AVL_TREE_SET.this.contains(k);
}

```

```

}

public boolean add(final KEY_GENERIC_TYPE k) {
 if (! in(k)) throw new IllegalArgumentException("Element (" + k + ") out of range [" + (bottom ? "-" :
String.valueOf(from)) + ", " + (top ? "-" : String.valueOf(to)) + "]");
 return AVL_TREE_SET.this.add(k);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean remove(final KEY_TYPE k) {
 if (! in(KEY_GENERIC_CAST k)) return false;
 return AVL_TREE_SET.this.remove(k);
}

public int size() {
 final SubsetIterator i = new SubsetIterator();
 int n = 0;

 while(i.hasNext()) {
 n++;
 i.NEXT_KEY();
 }

 return
n;
}

public boolean isEmpty() {
 return ! new SubsetIterator().hasNext();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
 return actualComparator;
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() {
 return new SubsetIterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) {
 return new SubsetIterator(from);
}

public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_TYPE to) {
 if (top) return new Subset(from, bottom, to, false);
 return compare(to, this.to) < 0 ? new Subset(from, bottom, to, false) : this;
}

```



```

public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_TYPE from) {
 if (bottom) return new Subset(from, false, to, top);
 return compare(from, this.from) > 0 ? new Subset(from, false, to, top) : this;
}

public SORTED_SET KEY_GENERIC subSet(KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to) {
 if (top && bottom) return new Subset(from, false,
to, false);
 if (! top) to = compare(to, this.to) < 0 ? to : this.to;
 if (! bottom) from = compare(from, this.from) > 0 ? from : this.from;
 if (! top && ! bottom && from == this.from && to == this.to) return this;
 return new Subset(from, false, to, false);
}

/** Locates the first entry.
 *
 * @return the first entry of this subset, or <code>null</code> if the subset is empty.
 */
public AVL_TREE_SET.Entry KEY_GENERIC firstEntry() {
 if (tree == null) return null;
 // If this subset goes to -infinity, we return the main set first entry; otherwise, we locate the start of the set.
 AVL_TREE_SET.Entry KEY_GENERIC e;
 if (bottom) e = firstEntry;
 else {
 e = locateKey(from);
 // If we find either the start or something greater we're OK.
 if (compare(e.key, from) < 0) e = e.next();
 }
 // Finally, if this subset doesn't go to infinity, we check that the resulting key isn't greater than the end.
 if (e == null
|| ! top && compare(e.key, to) >= 0) return null;
 return e;
}

/** Locates the last entry.
 *
 * @return the last entry of this subset, or <code>null</code> if the subset is empty.
 */
public AVL_TREE_SET.Entry KEY_GENERIC lastEntry() {
 if (tree == null) return null;
 // If this subset goes to infinity, we return the main set last entry; otherwise, we locate the end of the set.
 AVL_TREE_SET.Entry KEY_GENERIC e;
 if (top) e = lastEntry;
 else {
 e = locateKey(to);
 // If we find something smaller than the end we're OK.

```

```

 if (compare(e.key, to) >= 0) e = e.prev();
}
// Finally, if this subset doesn't go to -infinity, we check that the resulting key isn't smaller than the start.
if (e == null || ! bottom && compare(e.key, from) < 0) return null;
return e;
}

```

```

public KEY_GENERIC_TYPE FIRST() {
 AVL_TREE_SET.Entry KEY_GENERIC e = firstEntry();
 if (e == null) throw new NoSuchElementException();
 return e.key;
}

```

```

public
KEY_GENERIC_TYPE LAST() {
 AVL_TREE_SET.Entry KEY_GENERIC e = lastEntry();
 if (e == null) throw new NoSuchElementException();
 return e.key;
}

```

```

/** An iterator for subranges.

```

```

*

```

```

* <P>This class inherits from { @link SetIterator}, but overrides the methods that

```

```

* update the pointer after a { @link java.util.ListIterator#next()} or { @link java.util.ListIterator#previous()}. If we
would

```

```

* move out of the range of the subset we just overwrite the next or previous

```

```

* entry with <code>null</code>.

```

```

*/

```

```

private final class SubsetIterator extends SetIterator {
 SubsetIterator() {
 next = firstEntry();
 }
}

```

```

SubsetIterator(final KEY_GENERIC_TYPE k) {
 this();
}

```

```

 if (next != null) {
 if (! bottom && compare(k, next.key) < 0) prev = null;
 else if (! top && compare(k, (prev = lastEntry()).key) >= 0) next = null;
 else {
 next = locateKey(k);

```

```

 if (compare(next.key, k) <= 0) {
 prev = next;
 next
= next.next();
 }
}

```

```

 else prev = next.prev();
 }
 }
}

void updatePrevious() {
 prev = prev.prev();
 if (! bottom && prev != null && AVL_TREE_SET.this.compare(prev.key, from) < 0) prev = null;
}

void updateNext() {
 next = next.next();
 if (! top && next != null && AVL_TREE_SET.this.compare(next.key, to) >= 0) next = null;
}
}
}

/** Returns a deep copy of this tree set.
 *
 * <P>This method performs a deep copy of this tree set; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this tree set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public Object clone() {
 AVL_TREE_SET KEY_GENERIC c;
 try {
 c = (AVL_TREE_SET KEY_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.allocatePaths();

 if (count != 0) {
 // Also this apparently unfathomable code is
 derived from GNU libavl.
 Entry KEY_GENERIC e, p, q, rp = new Entry KEY_GENERIC(), rq = new Entry KEY_GENERIC();

 p = rp;
 rp.left(tree);

 q = rq;

```

```

rq.pred(null);

while(true) {
if (! p.pred()) {
e = p.left.clone();
e.pred(q.left);
e.succ(q);
q.left(e);

p = p.left;
q = q.left;
}
else {
while(p.succ()) {
p = p.right;

if (p == null) {
q.right = null;
c.tree = rq.left;

c.firstEntry = c.tree;
while(c.firstEntry.left != null) c.firstEntry = c.firstEntry.left;
c.lastEntry = c.tree;
while(c.lastEntry.right != null) c.lastEntry = c.lastEntry.right;

return c;
}
q = q.right;
}

p = p.right;
q = q.right;
}

if (! p.succ()) {
e = p.right.clone();
e.succ(q.right);
e.pred(q);
q.right(e);
}
}
}

return c;
}

```

```
private void writeObject(java.io.ObjectOutputStream s) throws
```

```

java.io.IOException {
 int n = count;
 SetIterator i = new SetIterator();

 s.defaultWriteObject();
 while(n-- != 0) s.WRITE_KEY(i.NEXT_KEY());
}

/** Reads the given number of entries from the input stream, returning the corresponding tree.
 *
 * @param s the input stream.
 * @param n the (positive) number of entries to read.
 * @param pred the entry containing the key that preceeds the first key in the tree.
 * @param succ the entry containing the key that follows the last key in the tree.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
private Entry KEY_GENERIC readTree(final java.io.ObjectInputStream s, final int n, final Entry KEY_GENERIC
pred, final Entry KEY_GENERIC succ) throws java.io.IOException, ClassNotFoundException {
 if (n == 1) {
 final Entry KEY_GENERIC top = new Entry KEY_GENERIC(KEY_GENERIC_CAST s.READ_KEY());
 top.pred(pred);
 top.succ(succ);

 return top;
 }

 if (n == 2) {
 /* We handle separately this case so that recursion will

 always be on nonempty subtrees. */
 final Entry KEY_GENERIC top = new Entry KEY_GENERIC(KEY_GENERIC_CAST s.READ_KEY());
 top.right(new Entry KEY_GENERIC(KEY_GENERIC_CAST s.READ_KEY()));
 top.right.pred(top);
 top.balance(1);
 top.pred(pred);
 top.right.succ(succ);

 return top;
 }

 // The right subtree is the largest one.
 final int rightN = n / 2, leftN = n - rightN - 1;

 final Entry KEY_GENERIC top = new Entry KEY_GENERIC();

 top.left(readTree(s, leftN, pred, top));

```

```

top.key = KEY_GENERIC_CAST s.READ_KEY();

top.right(readTree(s, rightN, top, succ));

if (n == (n & -n)) top.balance(1); // Quick test for determining whether n is a power of 2.

return top;
}

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
 /* The storedComparator is now correctly set, but we must restore
 on-the-fly the actualComparator. */
 setActualComparator();
 allocatePaths();

 if
 (count != 0) {
 tree = readTree(s, count, null, null);
 Entry KEY_GENERIC e;

 e = tree;
 while(e.left() != null) e = e.left();
 firstEntry = e;

 e = tree;
 while(e.right() != null) e = e.right();
 lastEntry = e;
 }

 if (ASSERTS) checkTree(tree);
}

#ifdef ASSERTS_CODE
private static KEY_GENERIC int checkTree(Entry KEY_GENERIC e) {
 if (e == null) return 0;

 final int leftN = checkTree(e.left()), rightN = checkTree(e.right());
 if (leftN + e.balance() != rightN)
 throw new AssertionError("Mismatch between left tree size (" + leftN + "), right tree size (" + rightN + ") and
balance (" + e.balance() + ")");

 return Math.max(leftN , rightN) + 1;
}
#else
private static KEY_GENERIC int checkTree(@SuppressWarnings("unused") Entry KEY_GENERIC e) { return 0;
}

```

```

#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private
static KEY_TYPE genKey() {
#ifdef #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
 return r.NEXT_KEY();
#else
 return Integer.toBinaryString(r.nextInt());
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
 int i, j;
 AVL_TREE_SET m;
 java.util.TreeSet t;
 KEY_TYPE k[] = new KEY_TYPE[n];
 KEY_TYPE nk[] = new KEY_TYPE[n];
 long ms;

 for(i = 0; i < n; i++) {
 k[i] = genKey();
 nk[i] = genKey();
 }

 double totAdd = 0, totYes = 0, totNo = 0, totIterFor = 0, totIterBack = 0, totRemYes = 0, d, dd;

 if (comp) {
 for(j = 0; j < 20; j++) {

 t = new java.util.TreeSet();

 /*

```

```

We first add all pairs to t. */
for(i = 0; i < n; i++) t.add(KEY2OBJ(k[i]));

/* Then we remove the first half and put it back. */
for(i = 0; i < n/2; i++) t.remove(KEY2OBJ(k[i]));

ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) t.add(KEY2OBJ(k[i]));
d = System.currentTimeMillis() - ms;

/* Then we remove the other half and put it back again. */
ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) t.remove(KEY2OBJ(k[i]));
dd = System.currentTimeMillis() - ms ;

ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) t.add(KEY2OBJ(k[i]));
d += System.currentTimeMillis() - ms;
if (j > 2) totAdd += n/d;
System.out.print("Add: " + format(n/d) + " K/s ");

/* Then we remove again the first half. */
ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) t.remove(KEY2OBJ(k[i]));
dd += System.currentTimeMillis() - ms ;
if (j > 2) totRemYes
+= n/dd;
System.out.print("RemYes: " + format(n/dd) + " K/s ");

/* And then we put it back. */
for(i = 0; i < n/2; i++) t.add(KEY2OBJ(k[i]));

/* We check for pairs in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.contains(KEY2OBJ(k[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + " K/s ");

/* We check for pairs not in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.contains(KEY2OBJ(nk[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totNo += d;
System.out.print("No: " + format(d) + " K/s ");

/* We iterate on t. */
ms = System.currentTimeMillis();

```



```

 for(Iterator it = t.iterator(); it.hasNext(); it.next());
 d = 1.0 * n / (System.currentTimeMillis() - ms);
 if (j > 2) totIterFor += d;
 System.out.print("IterFor: " + format(
d) +" K/s ");

 System.out.println();
}

System.out.println();
System.out.println("java.util Add: " + format(totAdd/(j-3)) + " K/s RemYes: " + format(totRemYes/(j-3)) + " K/s
Yes: " + format(totYes/(j-3)) + " K/s No: " + format(totNo/(j-3)) + " K/s IterFor: " + format(totIterFor/(j-3)) + "
K/s");

System.out.println();

totAdd = totYes = totNo = totIterFor = totIterBack = totRemYes = 0;

}

for(j = 0; j < 20; j++) {

 m = new AVL_TREE_SET();

 /* We first add all pairs to m. */
 for(i = 0; i < n; i++) m.add(k[i]);

 /* Then we remove the first half and put it back. */
 for(i = 0; i < n/2; i++) m.remove(k[i]);

 ms = System.currentTimeMillis();
 for(i = 0; i < n/2; i++) m.add(k[i]);
 d = System.currentTimeMillis() - ms;

 /* Then we remove the other half and put it back again. */
 ms = System.currentTimeMillis();
 for(i = n/2; i < n; i++) m.remove(k[i]);
 dd = System.currentTimeMillis() - ms ;

 ms
= System.currentTimeMillis();
 for(i = n/2; i < n; i++) m.add(k[i]);
 d += System.currentTimeMillis() - ms;
 if (j > 2) totAdd += n/d;
 System.out.print("Add: " + format(n/d) +" K/s ");

 /* Then we remove again the first half. */
 ms = System.currentTimeMillis();

```

```

for(i = 0; i < n/2; i++) m.remove(k[i]);
dd += System.currentTimeMillis() - ms ;
if (j > 2) totRemYes += n/dd;
System.out.print("RemYes: " + format(n/dd) + " K/s ");

/* And then we put it back. */
for(i = 0; i < n/2; i++) m.add(k[i]);

/* We check for pairs in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.contains(k[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + " K/s ");

/* We check for pairs not in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.contains(nk[i]);
d = 1.0 * n / (System.currentTimeMillis() -
ms);
if (j > 2) totNo += d;
System.out.print("No: " + format(d) + " K/s ");

/* We iterate on m. */
KEY_LIST_ITERATOR it = (KEY_LIST_ITERATOR)m.iterator();
ms = System.currentTimeMillis();
for(; it.hasNext(); it.NEXT_KEY());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterFor += d;
System.out.print("IterFor: " + format(d) + " K/s ");

/* We iterate back on m. */
ms = System.currentTimeMillis();
for(; it.hasPrevious(); it.PREV_KEY());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterBack += d;
System.out.print("IterBack: " + format(d) + " K/s ");

System.out.println();
}

System.out.println();
System.out.println("fastutil Add: " + format(totAdd/(j-3)) + " K/s RemYes: " + format(totRemYes/(j-3)) + " K/s
Yes: " + format(totYes/(j-3)) + " K/s No: " + format(totNo/(j-3)) + " K/s IterFor: " + format(totIterFor/(j-3)) + "
K/s IterBack: " + format(totIterBack/(j-3)) + "
) + "K/s");

```

```

System.out.println();
}

private static boolean valEquals(Object o1, Object o2) {
 return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static AVL_TREE_SET topSet;

protected static void testSets(SORTED_SET m, SortedSet t, int n, int level) {
 long ms;
 boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement;
 boolean rt = false, rm = false;

 if (level > 4) return;

 /* Now we check that both sets agree on first/last keys. */

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.first();
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 try {
 t.first();
 }
 catch
 (NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): first() divergence at start in
 NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 if (! mThrowsNoElement) ensure(t.first().equals(m.first()), "Error (" + level + ", " + seed + "): m and t differ at

```

```

start on their first key (" + m.first() + ", " + t.first() +")");

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.last();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.last();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): last() divergence at start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement +")");

if (! mThrowsNoElement) ensure(t.last().equals(m.last()
), "Error (" + level + ", " + seed + "): m and t differ at start on their last key (" + m.last() + ", " + t.last() +")");

/* Now we check that m and t are equal. */
if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

/* Now we check that m actually holds that data. */
for(Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.iterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)");
}

/* Now we check that inquiries about random
data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

```

```

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.contains(T);
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }

try {
 t.contains(KEY2OBJ(T));
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
if (!mThrowsNoElement && !mThrowsIllegal) ensure(
 m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in keys
between t and m (polymorphic method)");
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.contains(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 t.contains(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(
 mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
}

```

```

 if (!mThrowsNoElement && !mThrowsIllegal) ensure(m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)),
 "Error (" + level + ", " + seed + "): divergence between t and m (standard method)");
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 rm = m.add(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 rt = t.add(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement
 == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in NoSuchElementException for " + T
 + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence in
 IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(rm == rt, "Error (" + level + ", " + seed + "): divergence in
 add() between t and m");

 T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 rm = m.remove(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 rt = t.remove(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

```

```

 ensure(mThrowsNoElement
== tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in NoSuchElementException for "
+ T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(rm == rt, "Error (" + level + ", " + seed + "): divergence in
remove() between t and m");
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal");

/* Now we check that m actually holds the same data. */

for(Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check that
m actually holds that data, but iterating on m. */

for(Iterator i=m.iterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

/* Now we check that both sets agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.first();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.first();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): first() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
if (! mThrowsNoElement) ensure(t.first().equals(m.first()), "Error (" + level + ", " + seed + "): m and t differ on
their first key (" + m.first() + ", " + t.first() + ")");

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement

```

```

= tThrowsIllegal = false;

try {
 m.last();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.last();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): last() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

if (! mThrowsNoElement) ensure(t.last().equals(m.last()), "Error (" + level + ", " + seed + "): m and t differ on
their last key (" + m.last() + ", " + t.last() + ")");

/* Now we check cloning. */

if (level == 0) {
 ensure(m.equals(((AVL_TREE_SET)m).clone()), "Error (" + level + ", " + seed + "): m does not equal m.clone()"
);
 ensure(((AVL_TREE_SET)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m"
);
}

int h = m.hashCode();

/* Now we save and read m. */

SORTED_SET m2 = null;

try {
 java.io.File
ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m2 = (SORTED_SET)ois.readObject();
 ois.close();
 ff.delete();

```



```

}
catch(Exception e) {
 e.printStackTrace();
 System.exit(1);
}

ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

/* Now we check that m2 actually holds that data. */

ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
/* Now we take out of m everything, and check that it is empty. */

for(Iterator i=t.iterator(); i.hasNext();
) m2.remove(i.next());

ensure(m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)");

/* Now we play with iterators. */

{
 java.util.ListIterator i, j;
 Object J;
 i = (java.util.ListIterator)m.iterator();
 j = new java.util.LinkedList(t).listIterator();

 for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()");

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure(i.next().equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next()");

 if (r.nextFloat() < 0.5) {
 i.remove();
 j.remove();
 t.remove(J);
 }
 }
 else if (r.nextFloat() < .2 && i.hasPrevious()) {
 ensure(i.previous().equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence
in previous()");

 if (r.nextFloat() < 0.5) {
 i.remove();
 j.remove();
 t.remove(J);
 }
 }
 }
}

```

```

 }
 }

 ensure(i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()");
 ensure(i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()");

 }

 }

 {
 boolean badPrevious = false;
 Object previous = null;
 it.unimi.dsi.fastutil.BidirectionalIterator i;
 java.util.ListIterator j;
 Object I, J;
 KEY_TYPE from = genKey();
 j = new java.util.LinkedList(t).listIterator();
 while(j.hasNext()) {
 Object k = j.next();
 if (((Comparable)k).compareTo(KEY2OBJ(from)) > 0) {
 badPrevious = true;
 j.previous();
 break;
 }
 previous = k;
 }

 i = (it.unimi.dsi.fastutil.BidirectionalIterator)m.iterator(from);

 for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "):
 divergence in hasNext() (iterator with starting point " + from + ")");
 ensure(i.hasPrevious() == j.hasPrevious() || badPrevious && (i.hasPrevious() == (previous != null)), "Error (" +
 level + ", " + seed + "): divergence in hasPrevious() (iterator with starting point " + from + ")");

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure((I = i.next()).equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
 ", iterator with starting point " + from + ")");
 //System.err.println("Done next " + I + " " + J + " " + badPrevious);

 badPrevious = false;

 if (r.nextFloat() < 0.5) {
 //System.err.println("Removing in next");
 i.remove();
 j.remove();
 t.remove(J);

```

```

 }
 }
 else if (!badPrevious && r.nextFloat() < .2 && i.hasPrevious()) {
 ensure((I = i.previous()).equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J
+ ", iterator with starting point " + from + ")");

 if (r.nextFloat() < 0.5) {
 //System.err.println("Removing in prev");
 i.remove();
 j.remove();
 t.remove(J);
 }
 }
}

/* Now we check that m actually holds that data. */

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after iteration");

/* Now we select a pair of keys and create a subset. */

if (! m.isEmpty()) {
 java.util.ListIterator i;
 Object start = m.first(), end = m.first();
 for(i = (java.util.ListIterator)m.iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next());
 for(; i.hasNext() && r.nextFloat() < .95; end = i.next());

 //System.err.println("Checking subSet from " + start + " to " + end + " (level=" + (level+1) + ")...");
 testSets((SORTED_SET)m.subSet((KEY_CLASS)start, (KEY_CLASS)end), t.subSet(start,
end), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after subSet");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subSet");

 //System.err.println("Checking headSet to " + end + " (level=" + (level+1) + ")...");
 testSets((SORTED_SET)m.headSet((KEY_CLASS)end), t.headSet(end), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after headSet");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after headSet");

 //System.err.println("Checking tailSet from " + start + " (level=" + (level+1) + ")...");
 testSets((SORTED_SET)m.tailSet((KEY_CLASS)start), t.tailSet(start), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after tailSet");

```

```

 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after tailSet");
}

}

```

```

private static void
test(int n) {
 AVL_TREE_SET m = new AVL_TREE_SET();
 SortedSet t = new java.util.TreeSet();
 topSet = m;
 k = new Object[n];
 nk = new Object[n];
 kt = new KEY_TYPE[n];
 nkt = new KEY_TYPE[n];

```

```

 for(int i = 0; i < n; i++) {
#ifdef #keyclass(Object)
 k[i] = kt[i] = genKey();
 nk[i] = nkt[i] = genKey();
#else
 k[i] = new KEY_CLASS(kt[i] = genKey());
 nk[i] = new KEY_CLASS(nkt[i] = genKey());
#endif
 }

```

```

 /* We add pairs to t. */
 for(int i = 0; i < n; i++) t.add(k[i]);

```

```

 /* We add to m the same data */
 m.addAll(t);

```

```

 testSets(m, t, n, 0);

```

```

 System.out.println("Test OK");
 return;
}

```

```

public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);

```

```

 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

```

```

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
 }

```

```
 } catch(Throwable
e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}
```

```
#endif
```

```
}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AVLTreeSet.drv

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```

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```
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.BigList;
```

```
import java.util.Collection;
```

```
import java.util.List;
```

```
import java.util.Random;
```

```
/** A class providing static methods and objects that do useful things with type-specific big lists.
```

```
*
```

```
* @see java.util.Collections
```

```
* @see it.unimi.dsi.fastutil.BigList
```

```
*/
```

```
public
```

```

class BIG_LISTS {

private BIG_LISTS() {}

/** Shuffles the specified big list using the specified pseudorandom number generator.
 *
 * @param l the big list to be shuffled.
 * @param random a pseudorandom number generator (please use a XorShift generator).
 * @return l
 */
public static KEY_GENERIC BIG_LIST KEY_GENERIC shuffle(final BIG_LIST KEY_GENERIC l, final
Random random) {
for(long i = l.size64(); i-- != 0;) {
final long p = (random.nextLong() & 0x7FFFFFFFFFFFFFFFL) % (i + 1);
final KEY_GENERIC_TYPE t = l.GET_KEY(i);
l.set(i, l.GET_KEY(p));
l.set(p, t);
}
return l;
}

/** An immutable class representing an empty type-specific big list.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific list.
 */

public static class EmptyBigList KEY_GENERIC extends COLLECTIONS.EmptyCollection KEY_GENERIC
implements BIG_LIST KEY_GENERIC, java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

protected EmptyBigList() {}

public void add(final long index, final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException();
}
public boolean add(final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_TYPE REMOVE_KEY(long i) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_TYPE set(final long index, final KEY_GENERIC_TYPE k) { throw new
UnsupportedOperationException(); }

public long indexOf(KEY_TYPE k) { return -1; }
public long lastIndexOf(KEY_TYPE k) { return -1; }

public boolean addAll(Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }

```

```

public boolean addAll(long i, Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
public boolean removeAll(Collection<?> c
) { throw new UnsupportedOperationException(); }

public KEY_GENERIC_CLASS get(long i) { throw new IndexOutOfBoundsException(); }

#if #keys(primitive)
public boolean addAll(COLLECTION c) { throw new UnsupportedOperationException(); }
public boolean addAll(BIG_LIST c) { throw new UnsupportedOperationException(); }
public boolean addAll(long i, COLLECTION c) { throw new UnsupportedOperationException(); }
public boolean addAll(long i, BIG_LIST c) { throw new UnsupportedOperationException(); }

public void add(final long index, final KEY_GENERIC_CLASS k) { throw new
UnsupportedOperationException(); }
public boolean add(final KEY_GENERIC_CLASS k) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS set(final long index, final KEY_GENERIC_CLASS k) { throw new
UnsupportedOperationException(); }
public KEY_GENERIC_TYPE GET_KEY(long i) { throw new IndexOutOfBoundsException(); }

public KEY_GENERIC_CLASS remove(long k) { throw new UnsupportedOperationException();
}

public long indexOf(Object k) { return -1; }
public long lastIndexOf(Object k) { return -1; }
#else
public boolean remove(Object k) { throw new UnsupportedOperationException(); }
#endif

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return
BIG_LIST_ITERATORS.EMPTY_BIG_LIST_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return
BIG_LIST_ITERATORS.EMPTY_BIG_LIST_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(long i) { if (i == 0) return
BIG_LIST_ITERATORS.EMPTY_BIG_LIST_ITERATOR; throw new IndexOutOfBoundsException(
String.valueOf(i)); }

public BIG_LIST KEY_GENERIC subList(long from, long to) { if (from == 0 && to == 0) return this; throw
new IndexOutOfBoundsException(); }

public void getElements(long from, KEY_TYPE[][] a, long offset, long length) {
BIG_ARRAYS.ensureOffsetLength(

```

```

a, offset, length); if (from != 0) throw new IndexOutOfBoundsException(); }
public void removeElements(long from, long to) { throw new UnsupportedOperationException(); }

public void addElements(long index, final KEY_GENERIC_TYPE a[], long offset, long length) { throw new
UnsupportedOperationException(); }
public void addElements(long index, final KEY_GENERIC_TYPE a[]) { throw new
UnsupportedOperationException(); }

public void size(long s) { throw new UnsupportedOperationException(); }
public long size64() { return 0; }

public int compareTo(final BigList<? extends KEY_GENERIC_CLASS> o) {
if (o == this) return 0;
return ((BigList<?>)o).isEmpty() ? 0 : -1;
}

private Object readResolve() { return EMPTY_BIG_LIST; }
public Object clone() { return EMPTY_BIG_LIST; }
}

/** An empty big list (immutable). It is serializable and cloneable.
 *
 * <P>The class of this objects represent an abstract empty list
 * that is a sublist of
any type of list. Thus, { @link #EMPTY_BIG_LIST }
 * may be assigned to a variable of any (sorted) type-specific list.
 */

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final EmptyBigList EMPTY_BIG_LIST = new EmptyBigList();

/** An immutable class representing a type-specific singleton big list.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific big list.
 */

public static class Singleton KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC implements
java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

private final KEY_GENERIC_TYPE element;

private Singleton(final KEY_GENERIC_TYPE element) {
this.element = element;
}

```



```

}

public KEY_GENERIC_TYPE GET_KEY(final long i) { if (i == 0) return element; throw new
IndexOutOfBoundsException(); }
public KEY_GENERIC_TYPE REMOVE_KEY(final long i) { throw new UnsupportedOperationException(); }
public boolean contains(
final KEY_TYPE k) { return KEY_EQUALS(k, element); }

public boolean addAll(final Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
public boolean addAll(final long i, final Collection <? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
public boolean removeAll(final Collection<?> c) { throw new UnsupportedOperationException(); }
public boolean retainAll(final Collection<?> c) { throw new UnsupportedOperationException(); }

/* Slightly optimized w.r.t. the one in ABSTRACT_SET. */

public KEY_TYPE[] TO_KEY_ARRAY() {
KEY_TYPE a[] = new KEY_TYPE[1];
a[0] = element;
return a;
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return BIG_LIST_ITERATORS.singleton(
element); }

public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return listIterator(); }

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(long i) {
if (i > 1 || i < 0) throw new IndexOutOfBoundsException();
KEY_BIG_LIST_ITERATOR
KEY_GENERIC l = listIterator();
if (i == 1) l.next();
return l;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public BIG_LIST KEY_GENERIC subList(final long from, final long to) {
ensureIndex(from);
ensureIndex(to);
if (from > to) throw new IndexOutOfBoundsException("Start index (" + from + ") is greater than end index (" + to
+ ")");

if (from != 0 || to != 1) return EMPTY_BIG_LIST;
return this;
}

@Deprecated

```

```

public int size() { return 1; }
public long size64() { return 1; }
public void size(final long size) { throw new UnsupportedOperationException(); }
public void clear() { throw new UnsupportedOperationException(); }

public Object clone() { return this; }

#if #keys(primitive)
public boolean rem(final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
public boolean addAll(final COLLECTION c) { throw new UnsupportedOperationException(); }
@Override
public boolean
addAll(final long i, final COLLECTION c) { throw new UnsupportedOperationException(); }
#else
public boolean remove(Object k) { throw new UnsupportedOperationException(); }
#endif

}

/** Returns a type-specific immutable big list containing only the specified element. The returned big list is
serializable and cloneable.
*
* @param element the only element of the returned big list.
* @return a type-specific immutable big list containing just <code>element</code>.
*/

public static KEY_GENERIC BIG_LIST KEY_GENERIC singleton(final KEY_GENERIC_TYPE element) {
return new Singleton KEY_GENERIC(element); }

#if ! #keys(reference)

/** Returns a type-specific immutable big list containing only the specified element. The returned big list is
serializable and cloneable.
*
* @param element the only element of the returned big list.
* @return a type-specific immutable big list containing just <code>element</code>.
*/

public static KEY_GENERIC BIG_LIST KEY_GENERIC
singleton(final Object element) { return new Singleton KEY_GENERIC(KEY_OBJ2TYPE(element)); }

#endif

/** A synchronized wrapper class for big lists. */

public static class SynchronizedBigList KEY_GENERIC extends COLLECTIONS.SynchronizedCollection
KEY_GENERIC implements BIG_LIST KEY_GENERIC, java.io.Serializable {

```

```

private static final long serialVersionUID = -7046029254386353129L;

protected final BIG_LIST KEY_GENERIC list; // Due to the large number of methods that are not in
COLLECTION, this is worth caching.

protected SynchronizedBigList(final BIG_LIST KEY_GENERIC l, final Object sync) {
 super(l, sync);
 this.list = l;
}

protected SynchronizedBigList(final BIG_LIST KEY_GENERIC l) {
 super(l);
 this.list = l;
}

public KEY_GENERIC_TYPE GET_KEY(final long i) { synchronized(sync) { return list.GET_KEY(i); } }
public KEY_GENERIC_TYPE set(final long i, final KEY_GENERIC_TYPE k) { synchronized(sync) { return
list.set(i, k); }
}
public void add(final long i, final KEY_GENERIC_TYPE k) { synchronized(sync) { list.add(i, k); } }
public KEY_GENERIC_TYPE REMOVE_KEY(final long i) { synchronized(sync) { return list.REMOVE_KEY(
i); } }

public long indexOf(final KEY_TYPE k) { synchronized(sync) { return list.indexOf(k); } }
public long lastIndexOf(final KEY_TYPE k) { synchronized(sync) { return list.lastIndexOf(k); } }

public boolean addAll(final long index, final Collection<? extends KEY_GENERIC_CLASS> c) { synchronized(
sync) { return list.addAll(index, c); } }

public void getElements(final long from, final KEY_TYPE a[], final long offset, final long length) {
synchronized(sync) { list.getElements(from, a, offset, length); } }
public void removeElements(final long from, final long to) { synchronized(sync) { list.removeElements(from, to
); } }
public void addElements(long index, final KEY_GENERIC_TYPE a[], long offset, long length) { synchronized(
sync
) { list.addElements(index, a, offset, length); } }
public void addElements(long index, final KEY_GENERIC_TYPE a[]) { synchronized(sync) {
list.addElements(index, a); } }
public void size(final long size) { synchronized(sync) { list.size(size); } }
public long size64() { synchronized(sync) { return list.size64(); } }

public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return list.listIterator(); }
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return list.listIterator(); }
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(final long i) { return list.listIterator(i); }

public BIG_LIST KEY_GENERIC subList(final long from, final long to) { synchronized(sync) { return
synchronize(list.subList(from, to), sync); } }

```

```

public boolean equals(final Object o) { synchronized(sync) { return list.equals(o); } }
public int hashCode() { synchronized(sync) { return list.hashCode(); } }

#if ! #keyclass(Reference)
public int compareTo(
final BigList<? extends KEY_GENERIC_CLASS> o) { synchronized(sync) { return list.compareTo(o); } }
#endif

#if #keys(primitive)
public boolean addAll(final long index, final COLLECTION c) { synchronized(sync) { return list.addAll(index,
c); } }
public boolean addAll(final long index, BIG_LIST l) { synchronized(sync) { return list.addAll(index, l); } }
public boolean addAll(BIG_LIST l) { synchronized(sync) { return list.addAll(l); } }

public KEY_GENERIC_CLASS get(final long i) { synchronized(sync) { return list.get(i); } }
public void add(final long i, KEY_GENERIC_CLASS k) { synchronized(sync) { list.add(i, k); } }
public KEY_GENERIC_CLASS set(final long index, KEY_GENERIC_CLASS k) { synchronized(sync) { return
list.set(index, k); } }
public KEY_GENERIC_CLASS remove(final long i) { synchronized(sync) { return list.remove(i); } }
public long indexOf(final Object o) { synchronized(sync) { return list.indexOf(o
); } }
public long lastIndexOf(final Object o) { synchronized(sync) { return list.lastIndexOf(o); } }
#endif
}

/** Returns a synchronized type-specific big list backed by the given type-specific big list.
*
* @param l the big list to be wrapped in a synchronized big list.
* @return a synchronized view of the specified big list.
* @see java.util.Collections#synchronizedList(List)
*/
public static KEY_GENERIC BIG_LIST KEY_GENERIC synchronize(final BIG_LIST KEY_GENERIC l) {
return new SynchronizedBigList KEY_GENERIC(l); }

/** Returns a synchronized type-specific big list backed by the given type-specific big list, using an assigned object
to synchronize.
*
* @param l the big list to be wrapped in a synchronized big list.
* @param sync an object that will be used to synchronize the access to the big list.
* @return a synchronized view of the specified big list.
* @see java.util.Collections#synchronizedList(List)
*/

public static KEY_GENERIC BIG_LIST
KEY_GENERIC synchronize(final BIG_LIST KEY_GENERIC l, final Object sync) { return new
SynchronizedBigList KEY_GENERIC(l, sync); }

```

```

/** An unmodifiable wrapper class for big lists. */

public static class UnmodifiableBigList KEY_GENERIC extends COLLECTIONS.UnmodifiableCollection
KEY_GENERIC implements BIG_LIST KEY_GENERIC, java.io.Serializable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected final BIG_LIST KEY_GENERIC list; // Due to the large number of methods that are not in
COLLECTION, this is worth caching.

 protected UnmodifiableBigList(final BIG_LIST KEY_GENERIC l) {
 super(l);
 this.list = l;
 }

 public KEY_GENERIC_TYPE GET_KEY(final long i) { return list.GET_KEY(i); }
 public KEY_GENERIC_TYPE set(final long i, final KEY_GENERIC_TYPE k) { throw new
UnsupportedOperationException(); }
 public void add(final long i, final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
 public KEY_GENERIC_TYPE
REMOVE_KEY(final long i) { throw new UnsupportedOperationException(); }

 public long indexOf(final KEY_TYPE k) { return list.indexOf(k); }
 public long lastIndexOf(final KEY_TYPE k) { return list.lastIndexOf(k); }

 public boolean addAll(final long index, final Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }

 public void getElements(final long from, final KEY_TYPE a[], final long offset, final long length) {
list.getElements(from, a, offset, length); }
 public void removeElements(final long from, final long to) { throw new UnsupportedOperationException(); }
 public void addElements(long index, final KEY_GENERIC_TYPE a[], long offset, long length) { throw new
UnsupportedOperationException(); }
 public void addElements(long index, final KEY_GENERIC_TYPE a[]) { throw new
UnsupportedOperationException(); }
 public void size(final long size) { list.size(size); }
 public long size64() { return list.size64(); }
}

 public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return listIterator(); }
 public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return
BIG_LIST_ITERATORS.unmodifiable(list.listIterator()); }
 public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(final long i) { return
BIG_LIST_ITERATORS.unmodifiable(list.listIterator(i)); }

```

```

public BIG_LIST KEY_GENERIC subList(final long from, final long to) { return unmodifiable(list.subList(from,
to)); }

public boolean equals(final Object o) { return list.equals(o); }
public int hashCode() { return list.hashCode(); }

#if ! #keyclass(Reference)
public int compareTo(final BigList<? extends KEY_GENERIC_CLASS> o) { return list.compareTo(o); }
#endif

#if #keys(primitive)
public boolean addAll(final long index, final COLLECTION c) { throw new UnsupportedOperationException(); }
public boolean addAll(final BIG_LIST l) { throw new UnsupportedOperationException(); }
public boolean addAll(final long
index, final BIG_LIST l) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS get(final long i) { return list.get(i); }
public void add(final long i, KEY_GENERIC_CLASS k) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS set(final long index, KEY_GENERIC_CLASS k) { throw new
UnsupportedOperationException(); }
public KEY_GENERIC_CLASS remove(final long i) { throw new UnsupportedOperationException(); }
public long indexOf(final Object o) { return list.indexOf(o); }
public long lastIndexOf(final Object o) { return list.lastIndexOf(o); }
#endif
}

/** Returns an unmodifiable type-specific big list backed by the given type-specific big list.
*
* @param l the big list to be wrapped in an unmodifiable big list.
* @return an unmodifiable view of the specified big list.
* @see java.util.Collections#unmodifiableList(List)
*/
public static KEY_GENERIC BIG_LIST KEY_GENERIC unmodifiable(final BIG_LIST KEY_GENERIC
l) { return new UnmodifiableBigList KEY_GENERIC(l); }

/** A class exposing a list as a big list. */

public static class ListBigList KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC implements
java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

private final LIST KEY_GENERIC list;

protected ListBigList(final LIST KEY_GENERIC list) {
this.list = list;
}
}

```

```

private int intIndex(long index) {
 if (index >= Integer.MAX_VALUE) throw new IndexOutOfBoundsException("This big list is restricted to 32-bit
indices");
 return (int)index;
}

public long size64() { return list.size(); }
@Deprecated
public int size() { return list.size(); }
public void size(final long size) { list.size(intIndex(size)); }
public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() { return
BIG_LIST_ITERATORS.asBigListIterator(list.iterator()); }
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() { return
BIG_LIST_ITERATORS.asBigListIterator(
list.listIterator()); }
public boolean addAll(final long index, final Collection<? extends KEY_GENERIC_CLASS> c) { return
list.addAll(intIndex(index), c); }
public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(final long index) { return
BIG_LIST_ITERATORS.asBigListIterator(list.listIterator(intIndex(index))); }
public BIG_LIST KEY_GENERIC subList(long from, long to) { return new ListBigList KEY_GENERIC(
list.subList(intIndex(from), intIndex(to))); }
public boolean contains(final KEY_TYPE key) { return list.contains(key); }
public KEY_TYPE[] TO_KEY_ARRAY() { return list.TO_KEY_ARRAY(); }
public void removeElements(final long from, final long to) { list.removeElements(intIndex(from), intIndex(to)
); }
#if #keys(primitive)
public KEY_TYPE[] TO_KEY_ARRAY(KEY_TYPE[] a) { return list.TO_KEY_ARRAY(a); }
#endif
public void add(long index, KEY_GENERIC_TYPE key) { list.add(intIndex(index), key); }
#if #keys(primitive)
@Override
#endif
public
boolean addAll(long index, COLLECTION KEY_GENERIC c) { return list.addAll(intIndex(index), c); }
#if #keys(primitive)
@Override
#endif
public boolean addAll(long index, BIG_LIST KEY_GENERIC c) { return list.addAll(intIndex(index), c); }
public boolean add(KEY_GENERIC_TYPE key) { return list.add(key); }
public boolean addAll(BIG_LIST KEY_GENERIC c) { return list.addAll(c); }
public KEY_GENERIC_TYPE GET_KEY(long index) { return list.GET_KEY(intIndex(index)); }
public long indexOf(KEY_TYPE k) { return list.indexOf(k); }
public long lastIndexOf(KEY_TYPE k) { return list.lastIndexOf(k); }
public KEY_GENERIC_TYPE REMOVE_KEY(long index) { return list.REMOVE_KEY(intIndex(index)); }
public KEY_GENERIC_TYPE set(long index, KEY_GENERIC_TYPE k) { return list.set(intIndex(index), k); }
public boolean addAll(COLLECTION KEY_GENERIC c) { return list.addAll(c); }
public boolean containsAll(COLLECTION

```

```

KEY_GENERIC c) { return list.containsAll(c); }
public boolean removeAll(COLLECTION KEY_GENERIC c) { return list.removeAll(c); }
public boolean retainAll(COLLECTION KEY_GENERIC c) { return list.retainAll(c); }
public boolean isEmpty() { return list.isEmpty(); }
public <T> T[] toArray(T[] a) { return list.toArray(a); }
public boolean containsAll(Collection<?> c) { return list.containsAll(c); }
public boolean addAll(Collection<? extends KEY_GENERIC_CLASS> c) { return list.addAll(c); }
public boolean removeAll(Collection<?> c) { return list.removeAll(c); }
public boolean retainAll(Collection<?> c) { return list.retainAll(c); }
public void clear() { list.clear(); }
public int hashCode() { return list.hashCode(); }
}

/** Returns a big list backed by the specified list.
 *
 * @param list a list.
 * @return a big list backed by the specified list.
 */
public static KEY_GENERIC BIG_LIST KEY_GENERIC asBigList(final LIST KEY_GENERIC list)
{ return new ListBigList KEY_GENERIC(list); }

```

```

#ifdef TEST

```

```

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#elif #keyclass(Object)
return Integer.toBinaryString(r.nextInt());
#else
return new java.io.Serializable() {};
#endif
}

```

```

private static void testLists(KEY_TYPE k, BIG_LIST m, BIG_LIST t, int level) {
int n = 100;
int c;

```

```

long ms;
boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement, mThrowsIndex, tThrowsIndex,
mThrowsUnsupp, tThrowsUnsupp;
boolean rt = false, rm = false;
Object Rt = null, Rm = null;

```



```

if (level == 0) return;

/* Now we check that m and t are equal. */
if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
ensure(t.equals(m), "Error (" + level + ",
" + seed + "): ! t.equals(m) at start");

/* Now we check that m actually holds that data. */
for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(java.util.Iterator i=m.listIterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)");
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 m.contains(T);
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement
= true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }

 try {
 t.contains(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);

```

```

 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex +
", " + tThrowsIndex + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex) ensure(m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in keys between t and m (polymorphic
method) " + m);
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 m.contains(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 t.contains(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException
e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): contains() divergence in
UnsupportedOperationException
for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(
m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence between t
and m (standard method) " + m);

```

```

}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.add(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 rt = t.add(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException
e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() divergence in
UnsupportedOperationException
for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in add() between t and m " + m);

 T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.remove(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }

```

```

catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 rt = t.remove(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch
(UnsupportedOperationException e) { tThrowsUnsupp = true; }

if (! KEY_EQUALS(T, k) && mThrowsUnsupp && ! tThrowsUnsupp) mThrowsUnsupp = true; // Stupid bug in
Collections.singleton()

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp
+ ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in remove() between t and m " + m);
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal " + m);

/* Now we add and remove random data in m and t at specific positions, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 int pos = r.nextInt(2);

 try {
 m.add(pos, KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex

```

```

= true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
t.add(pos, KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
IndexOutOfBoundsException for
" + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

pos = r.nextInt(2);

try {
Rm = m.remove(pos);
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
Rt = t.remove(pos);
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException
e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() at " + pos + "

```

```

divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence
in UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if
(!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(Rm == Rt || Rm
!= null && Rm.equals(Rt), "Error (" + level + ", " + seed + "): divergence in remove() at " + pos + " between t and
m " + m);
 }

```

```

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal " + m);

```

*/\* Now we add and remove random collections in m and t, checking that the result is the same. \*/*

```

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

```

```

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

```

```

 try {
 rm = m.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException
e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

```

```

 try {
 rt = t.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

```

```

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() divergence in
IndexOutOfBoundsException

```

```

for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in addAll() between t and m " + m);

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
 rm = m.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try
{
 rt = t.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): removeAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): removeAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): removeAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp
== tThrowsUnsupp, "Error (" + level + ", " + seed + "): removeAll() divergence in UnsupportedOperationException
for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in removeAll() between t and m " + m);
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after set removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after set removal " + m);

/* Now we add random collections at specific positions in m and t, checking that the result is the same. */
for(int i=0; i<20*n; i++) {

```

```

KEY_TYPE T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

int pos = r.nextInt(2);

try {
 rm = m.addAll(pos, java.util.Collections.singleton(KEY2OBJ(T)));
}
catch
(java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 rt = t.addAll(pos, java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() at
" + pos + " divergence in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") "
+ m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence
in UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in addAll() at " + pos + " between t and m " + m);

}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after set removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after set removal " + m);

/* Now we check that m actually
holds the same data. */

for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

```



```

}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.listIterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

if (m instanceof Singleton) {
 ensure(m.equals(((Singleton)m).clone()), "Error (" + level + ", " + seed + "): m does not equal m.clone()");
 ensure(((Singleton)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m");
}

int h = m.hashCode();

/* Now we save and read m. */

BIG_LIST m2 = null;

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream
oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m2 = (BIG_LIST)ois.readObject();
 ois.close();
 ff.delete();
}
catch(Exception e) {
 e.printStackTrace();
 System.exit(1);
}

#if ! #keyclass(Reference)

ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

/* Now we check that m2 actually holds that data. */

ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");

```

```

ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
#endif

if (! m.isEmpty()) {
 long start = (r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % m.size64();
 long end = start + (r.nextLong() & 0x7FFFFFFFFFFFFFFFL) % (m.size64() - start);
 //System.err.println("Checking
subList from " + start + " to " + end + " (level=" + (level+1) + ")...");
 testLists(k, m.subList(start, end), t.subList(start, end), level - 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals(t) after subList");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subList");

}

return;
}

private static void test() {
 KEY_TYPE k = genKey();
 BIG_LIST m = new Singleton(k);
 BIG_LIST u = BIG_LISTS.unmodifiable(BIG_LISTS.asBigList(LIST_S.singleton(KEY2OBJ(k))));
 testLists(k, m, u, 3);
 System.out.println("Test OK");
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition fp = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer
s = new StringBuffer();
 return format.format(d, s, fp).toString();
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

```

```

/** This method expects as first argument a lower-cased type (e.g., "int"),
 * and as second optional argument a seed. */

public static void main(String arg[]) throws Exception {
if (arg.length > 1) r = new java.util.Random(seed = Long.parseLong(arg[1]));

try {
test();
} catch(Throwable e) {
e.printStackTrace(System.err);
System.err.println("seed: " + seed);
}
}

#endif

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigLists.drv

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

```

/*
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 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package PACKAGE;
```

```

import it.unimi.dsi.fastutil.BigArrays;
import it.unimi.dsi.fastutil.Hash;
import it.unimi.dsi.fastutil.Size64;
import it.unimi.dsi.fastutil.HashCommon;
import static it.unimi.dsi.fastutil.HashCommon.bigArraySize;
import static it.unimi.dsi.fastutil.HashCommon.maxFill;

```

```

import java.util.Collection;
import
java.util.Iterator;
import java.util.NoSuchElementException;

/** A type-specific hash big set with with a fast, small-footprint implementation.
 *
 * <P>Instances of this class use a hash table to represent a big set: the number
 * of elements in the set is limited only by the amount of core memory. The table
 * (backed by a { @linkplain it.unimi.dsi.fastutil.BigArrays big array}) is
 * filled up to a specified load factor, and then doubled in size to
 * accommodate new entries. If the table is emptied below one fourth
 * of the load factor, it is halved in size. However, halving is
 * not performed when deleting entries from an iterator, as it would interfere
 * with the iteration process.
 *
 * <p>Note that { @link #clear()} does not modify the hash table size.
 * Rather, a family of { @linkplain #trim() trimming
 * methods} lets you control the size of the table; this is particularly useful
 * if you reuse instances of this class.
 *
 * <p>The methods of
 * this class are about 30% slower than those of the corresponding non-big set.
 *
 * @see Hash
 * @see HashCommon
 */

public class OPEN_HASH_BIG_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable, Hash, Size64 {

 private static final long serialVersionUID = 0L;
 private static final boolean ASSERTS = ASSERTS_VALUE;

 /** The big array of keys. */
 protected transient KEY_GENERIC_TYPE[][] key;

 /** The mask for wrapping a position counter. */
 protected transient long mask;

 /** The mask for wrapping a segment counter. */
 protected transient int segmentMask;

 /** The mask for wrapping a base counter. */
 protected transient int baseMask;

 /** Whether this set contains the null key. */

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protected transient boolean containsNull;

/** The current table size (always a power of 2). */
protected transient long n;

/** Threshold after which we rehash. It must be the table size times { @link #f}. */
protected transient long maxFill;

/**
The acceptable load factor. */
protected final float f;

/** Number of entries in the set. */
protected long size;

/** Initialises the mask values. */
private void initMasks() {
 mask = n - 1;
 /* Note that either we have more than one segment, and in this case all segments
 * are BigArrays.SEGMENT_SIZE long, or we have exactly one segment whose length
 * is a power of two. */
 segmentMask = key[0].length - 1;
 baseMask = key.length - 1;
}

/** Creates a new hash big set.
*
* <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.
*
* @param expected the expected number of elements in the set.
* @param f the load factor.
*/
SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_BIG_SET(final long expected, final float f) {
 if (f <= 0 || f > 1) throw new IllegalArgumentException("Load factor must be greater than 0 and smaller than or
equal to 1");
 if (n < 0) throw new IllegalArgumentException(
"The expected number of elements must be nonnegative");

 this.f = f;

 n = bigArraySize(expected, f);
 maxFill = maxFill(n, f);
 key = KEY_GENERIC_BIG_ARRAY_CAST BIG_ARRAYS.newBigArray(n);
 initMasks();
}

```

```

/** Creates a new hash big set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor.
 *
 * @param expected the expected number of elements in the hash big set.
 */

public OPEN_HASH_BIG_SET(final long expected) {
 this(expected, DEFAULT_LOAD_FACTOR);
}

/** Creates a new hash big set with initial expected {@link Hash#DEFAULT_INITIAL_SIZE} elements
 * and {@link Hash#DEFAULT_LOAD_FACTOR} as load factor.
 */

public OPEN_HASH_BIG_SET() {
 this(DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR);
}

/** Creates a new hash big set copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET(final Collection<? extends KEY_GENERIC_CLASS> c, final
float f) {
 this(c.size(), f);
 addAll(c);
}

/** Creates a new hash big set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash big set.
 */

public OPEN_HASH_BIG_SET(final Collection<? extends KEY_GENERIC_CLASS> c) {
 this(c, DEFAULT_LOAD_FACTOR);
}

/** Creates a new hash big set copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET(final COLLECTION KEY_EXTENDS_GENERIC c, final float f) {
 this(c.size(), f);
}

```

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addAll(c);
}

/** Creates a new hash big set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash big set.
 */

public OPEN_HASH_BIG_SET(final COLLECTION KEY_EXTENDS_GENERIC c)
{
 this(c, DEFAULT_LOAD_FACTOR);
}

/** Creates a new hash big set using elements provided by a type-specific iterator.
 *
 * @param i a type-specific iterator whose elements will fill the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final float f) {
 this(DEFAULT_INITIAL_SIZE, f);
 while(i.hasNext()) add(i.NEXT_KEY());
}

/** Creates a new hash big set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor using elements
provided by a type-specific iterator.
 *
 * @param i a type-specific iterator whose elements will fill the new hash big set.
 */

public OPEN_HASH_BIG_SET(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i) {
 this(i, DEFAULT_LOAD_FACTOR);
}

#if #keys(primitive)

/** Creates a new hash big set using elements provided by an iterator.
 *
 * @param i an iterator whose elements will fill the new hash big set.
 * @param f the load factor.
 */

public OPEN_HASH_BIG_SET(
 final Iterator<?> i, final float f) {
 this(ITERATORS.AS_KEY_ITERATOR(i), f);
}

```

```

/** Creates a new hash big set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor using elements
provided by an iterator.
*
* @param i an iterator whose elements will fill the new hash big set.
*/

public OPEN_HASH_BIG_SET(final Iterator<?> i) {
 this(ITERATORS.AS_KEY_ITERATOR(i));
}

#endif

/** Creates a new hash big set and fills it with the elements of a given array.
*
* @param a an array whose elements will be used to fill the new hash big set.
* @param offset the first element to use.
* @param length the number of elements to use.
* @param f the load factor.
*/

public OPEN_HASH_BIG_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length, final float f) {
 this(length < 0 ? 0 : length, f);
 ARRAYS.ensureOffsetLength(a, offset, length);
 for(int i = 0; i < length; i++) add(a[offset + i]);
}

/** Creates a new hash big set
with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor and fills it with the elements of a given array.
*
* @param a an array whose elements will be used to fill the new hash big set.
* @param offset the first element to use.
* @param length the number of elements to use.
*/

public OPEN_HASH_BIG_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length) {
 this(a, offset, length, DEFAULT_LOAD_FACTOR);
}

/** Creates a new hash big set copying the elements of an array.
*
* @param a an array to be copied into the new hash big set.
* @param f the load factor.
*/

public OPEN_HASH_BIG_SET(final KEY_GENERIC_TYPE[] a, final float f) {
 this(a, 0, a.length, f);
}

```



```

/** Creates a new hash big set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor
 * copying the elements of an array.
 *
 * @param a an array to be copied into the new hash big set.
 */

public OPEN_HASH_BIG_SET(final KEY_GENERIC_TYPE[] a) {
 this(a, DEFAULT_LOAD_FACTOR
);
}

private long realSize() {
 return containsNull ? size - 1 : size;
}

private void ensureCapacity(final long capacity) {
 final long needed = bigArraySize(capacity, f);
 if (needed > n) rehash(needed);
}

#if #keys(primitive)
/** { @inheritDoc } */
public boolean addAll(COLLECTION c) {
 final long size = c instanceof Size64 ? ((Size64)c).size64() : c.size();
 if (f <= .5) ensureCapacity(size); // The resulting collection will be size for c.size() elements
 else ensureCapacity(size64() + size); // The resulting collection will be sized for size() + c.size() elements
 return super.addAll(c);
}
#endif

/** { @inheritDoc } */
public boolean addAll(Collection<? extends KEY_GENERIC_CLASS> c) {
 final long size = c instanceof Size64 ? ((Size64)c).size64() : c.size();
 // The resulting collection will be at least c.size() big
 if (f <= .5) ensureCapacity(size); // The resulting collection will be sized for c.size() elements
 else ensureCapacity(
size64() + size); // The resulting collection will be sized for size() + c.size() elements
 return super.addAll(c);
}

public boolean add(final KEY_GENERIC_TYPE k) {
 int displ, base;

 if (KEY_IS_NULL(k)) {
 if (containsNull) return false;
 containsNull = true;

```

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 }
 else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[][] key = this.key;
 final long h = KEY2LONGHASH(k);

 // The starting point.
 if (! KEY_IS_NULL(curr = key[base = (int)((h & mask) >>> BigArrays.SEGMENT_SHIFT)][displ = (int)(h
& segmentMask)])) {
 if (KEY_EQUALS_NOT_NULL(curr, k)) return false;
 while(! KEY_IS_NULL(curr = key[base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0)) &
baseMask][displ]))
 if (KEY_EQUALS_NOT_NULL(curr, k)) return false;
 }

 key[base][displ] = k;
 }

 if (size++ >= maxFill) rehash(2 * n);
 if (ASSERTS) checkTable();
 return true;
 }

#if #keyclass(Object)
/** Add a random element
if not present, get the existing value if already present.
*
* This is equivalent to (but faster than) doing a:
* <pre>
* K exist = set.get(k);
* if (exist == null) {
* set.add(k);
* exist = k;
* }
* </pre>
*/
public KEY_GENERIC_TYPE addOrGet(final KEY_GENERIC_TYPE k) {
 int displ, base;

 if (KEY_IS_NULL(k)) {
 if (containsNull) return null;
 containsNull = true;
 }
 else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[][] key = this.key;
 final long h = KEY2LONGHASH(k);

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```

// The starting point.
if (! KEY_IS_NULL(curr = key[base = (int)((h & mask) >>> BigArrays.SEGMENT_SHIFT)][displ = (int)(h
& segmentMask)])) {
 if (KEY_EQUALS_NOT_NULL(curr, k)) return curr;
 while(! KEY_IS_NULL(curr = key[base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0)) &
baseMask][displ]))
 if (KEY_EQUALS_NOT_NULL(curr, k)) return curr;
 }

 key[base][displ] = k;
}

if (size++ >=
maxFill) rehash(2 * n);
if (ASSERTS) checkTable();
return k;
}
#endif

/** Shifts left entries with the specified hash code, starting at the specified position,
* and empties the resulting free entry.
*
* @param pos a starting position.
*/
protected final void shiftKeys(long pos) {
// Shift entries with the same hash.
long last, slot;
final KEY_GENERIC_TYPE[][] key = this.key;

for(;;) {
 pos = ((last = pos) + 1) & mask;

 for(;;) {
 if (KEY_IS_NULL(BIG_ARRAYS.get(key, pos))) {
 BIG_ARRAYS.set(key, last, KEY_NULL);
 return;
 }
 slot = KEY2LONGHASH(BIG_ARRAYS.get(key, pos)) & mask;
 if (last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos) break;
 pos = (pos + 1) & mask;
 }

 BIG_ARRAYS.set(key, last, BIG_ARRAYS.get(key, pos));
}
}

private boolean removeEntry(final int base, final int displ) {
 shiftKeys(base * (long)BigArrays.SEGMENT_SIZE + displ);
}

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if (--size < maxFill
/ 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
return true;
}

private boolean removeNullEntry() {
containsNull = false;
if (--size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
return true;
}

public boolean remove(final KEY_TYPE k) {
if (KEY_IS_NULL(k)) {
if (containsNull) return removeNullEntry();
return false;
}

KEY_GENERIC_TYPE curr;
final KEY_GENERIC_TYPE[][] key = this.key;
final long h = KEY2LONGHASH(k);
int displ, base;

// The starting point.
if (KEY_IS_NULL(curr = key[base = (int)((h & mask) >>> BigArrays.SEGMENT_SHIFT)][displ = (int)(h &
segmentMask)])) return false;
if (KEY_EQUALS_NOT_NULL(curr, k)) return removeEntry(base, displ);
while(true) {
if (KEY_IS_NULL(curr = key[base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0)) &
baseMask][displ])) return false;
if (KEY_EQUALS_NOT_NULL(curr, k)) return removeEntry(base, displ);
}
}

public
boolean contains(final KEY_TYPE k) {
if (KEY_IS_NULL(k)) return containsNull;

KEY_GENERIC_TYPE curr;
final KEY_GENERIC_TYPE[][] key = this.key;
final long h = KEY2LONGHASH(k);
int displ, base;

// The starting point.
if (KEY_IS_NULL(curr = key[base = (int)((h & mask) >>> BigArrays.SEGMENT_SHIFT)][displ = (int)(h &
segmentMask)])) return false;
if (KEY_EQUALS_NOT_NULL(curr, k)) return true;
while(true) {
if (KEY_IS_NULL(curr = key[base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0)) &

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baseMask][displ])) return false;
 if (KEY_EQUALS_NOT_NULL(curr, k)) return true;
 }
}

#if #keyclass(Object)
/** Returns the element of this set that is equal to the given key, or <code>null</code>.
 * @return the element of this set that is equal to the given key, or <code>null</code>.
 */
public K get(final KEY_TYPE k) {
 if (k == null) return null; // This is correct independently of the value of containsNull

 KEY_GENERIC_TYPE
 curr;
 final KEY_GENERIC_TYPE[][] key = this.key;
 final long h = KEY2LONGHASH(k);
 int displ, base;

 // The starting point.
 if (KEY_IS_NULL(curr = key[base = (int)((h & mask) >>> BigArrays.SEGMENT_SHIFT)][displ = (int)(h &
segmentMask)])) return null;
 if (KEY_EQUALS_NOT_NULL(curr, k)) return curr;
 while(true) {
 if (KEY_IS_NULL(curr = key[base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0)) &
baseMask][displ])) return null;
 if (KEY_EQUALS_NOT_NULL(curr, k)) return curr;
 }
}
#endif

/** Removes all elements from this set.
 *
 * <P>To increase object reuse, this method does not change the table size.
 * If you want to reduce the table size, you must use { @link #trim(long) }.
 *
 */

public void clear() {
 if (size == 0) return;
 size = 0;
 containsNull = false;
 BIG_ARRAYS.fill(key, KEY_NULL);
}

/** An iterator over a hash big set. */

```

```

private class SetIterator extends
KEY_ABSTRACT_ITERATOR KEY_GENERIC {
/** The base of the last entry returned, if positive or zero; initially, the number of components
of the key array. If negative, the last element returned was
that of index { @code - base - 1 } from the { @link #wrapped } list. */
int base = key.length;
/** The displacement of the last entry returned; initially, zero. */
int displ;
/** The index of the last entry that has been returned (or { @link Long#MIN_VALUE } if { @link #base } is
negative).
It is -1 if either we did not return an entry yet, or the last returned entry has been removed. */
long last = -1;
/** A downward counter measuring how many entries must still be returned. */
long c = size;
/** A boolean telling us whether we should return the null key. */
boolean mustReturnNull = OPEN_HASH_BIG_SET.this.containsNull;
/** A lazily allocated list containing elements that have wrapped around the table because of removals. */
ARRAY_LIST KEY_GENERIC wrapped;

public boolean
hasNext() {
return c != 0;
}

public KEY_GENERIC_TYPE NEXT_KEY() {
if (! hasNext()) throw new NoSuchElementException();
c--;

if (mustReturnNull) {
mustReturnNull = false;
last = n;
return KEY_NULL;
}

final KEY_GENERIC_TYPE[][] key = OPEN_HASH_BIG_SET.this.key;

for(;;) {
if (displ == 0 && base <= 0) {
// We are just enumerating elements from the wrapped list.
last = Long.MIN_VALUE;
return wrapped.GET_KEY(- (--base) - 1);
}

if (displ-- == 0) displ = key[--base].length - 1;

final KEY_GENERIC_TYPE k = key[base][displ];
if (! KEY_IS_NULL(k)) {
last = base * (long)BigArrays.SEGMENT_SIZE + displ;
}
}
}

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```

 return k;
}
}
}

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
private final void shiftKeys(long pos) {
 // Shift entries with
the same hash.
 long last, slot;
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[][] key = OPEN_HASH_BIG_SET.this.key;

 for(;;) {
 pos = ((last = pos) + 1) & mask;

 for(;;) {
 if(KEY_IS_NULL(curr = BIG_ARRAYS.get(key, pos))) {
 BIG_ARRAYS.set(key, last, KEY_NULL);
 return;
 }
 slot = KEY2LONGHASH(curr) & mask;
 if (last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos) break;
 pos = (pos + 1) & mask;
 }

 if (pos < last) { // Wrapped entry.
 if (wrapped == null) wrapped = new ARRAY_LIST KEY_GENERIC();
 wrapped.add(BIG_ARRAYS.get(key, pos));
 }

 BIG_ARRAYS.set(key, last, curr);
 }
}

public void remove() {
 if (last == -1) throw new IllegalStateException();
 if (last == n) OPEN_HASH_BIG_SET.this.containsNull = false;
 else if (base >= 0) shiftKeys(last);
 else {
 // We're removing wrapped entries.
 #if #keys(reference)
 OPEN_HASH_BIG_SET.this.remove(

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wrapped.set(- base - 1, null);
#else
 OPEN_HASH_BIG_SET.this.remove(wrapped.GET_KEY(- base - 1));
#endif
 last = -1; // Note that we must not decrement size
 return;
}

size--;
last = -1; // You can no longer remove this entry.
if (ASSERTS) checkTable();
}
}

public KEY_ITERATOR KEY_GENERIC iterator() {
 return new SetIterator();
}

/** A no-op for backward compatibility. The kind of tables implemented by
 * this class never need rehashing.
 *
 * <P>If you need to reduce the table size to fit exactly
 * this set, use { @link #trim() }.
 *
 * @return true.
 * @see #trim()
 * @deprecated A no-op.
 */

@Deprecated
public boolean rehash() {
 return true;
}

/** Rehashes this set, making the table as small as possible.
 *
 * <P>This method rehashes the table to the smallest size satisfying the
 * load factor. It can be used when the set will not be changed anymore, so
 * to optimize access speed and size.
 *
 * <P>If the table size
is already the minimum possible, this method
 * does nothing.
 *
 * @return true if there was enough memory to trim the set.
 * @see #trim(long)
 */

```



```

public boolean trim() {
 final long l = bigArraySize(size, f);
 if (l >= n || size > maxFill(l, f)) return true;
 try {
 rehash(l);
 }
 catch(OutOfMemoryError cantDoIt) { return false; }
 return true;
}

/** Resizes this set if the table is too large.
 *
 * <P>Let <var>N</var> be the smallest table size that can hold
 * <code>max(n,{ @link #size64()})</code> entries, still satisfying the load factor. If the current
 * table size is smaller than or equal to <var>N</var>, this method does
 * nothing. Otherwise, it resizes this set in a table of size
 * <var>N</var>.
 *
 * <P>This method is useful when reusing sets. { @linkplain #clear() Clearing a
 * set} leaves the table size untouched. If you are reusing a set
 * many times, you can call this method with a typical
 * size to avoid keeping around a
very large table just
 * because of a few large transient sets.
 *
 * @param n the threshold for the trimming.
 * @return true if there was enough memory to trim the set.
 * @see #trim()
 */

public boolean trim(final long n) {
 final long l = bigArraySize(n, f);
 if (this.n <= l) return true;
 try {
 rehash(l);
 }
 catch(OutOfMemoryError cantDoIt) { return false; }
 return true;
}

/** Resizes the set.
 *
 * <P>This method implements the basic rehashing strategy, and may be
 * overridden by subclasses implementing different rehashing strategies (e.g.,
 * disk-based rehashing). However, you should not override this method
 * unless you understand the internal workings of this class.
 *

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* @param newN the new size
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
protected void rehash(final long newN) {
 final KEY_GENERIC_TYPE key[][] = this.key;
 final KEY_GENERIC_TYPE newKey[][] = KEY_GENERIC_BIG_ARRAY_CAST BIG_ARRAYS.newBigArray(
newN);
 final long mask =
newN - 1; // Note that this is used by the hashing macro
 final int newSegmentMask = newKey[0].length - 1;
 final int newBaseMask = newKey.length - 1;

 int base = 0, displ = 0, b, d;
 long h;
 KEY_GENERIC_TYPE k;

 for(long i = realSize(); i-- != 0;) {

 while(KEY_IS_NULL(key[base][displ])) base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0
)));

 k = key[base][displ];
 h = KEY2LONGHASH(k);

 // The starting point.
 if (! KEY_IS_NULL(newKey[b = (int)((h & mask) >>> BigArrays.SEGMENT_SHIFT)][d = (int)(h &
newSegmentMask)]))
 while(! KEY_IS_NULL(newKey[b = (b + ((d = (d + 1) & newSegmentMask) == 0 ? 1 : 0)) & newBaseMask
][d]));

 newKey[b][d] = k;

 base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0));
 }

 this.n = newN;
 this.key = newKey;
 initMasks();
 maxFill = maxFill(n, f);
}

@Deprecated
public int size() {
 return (int)Math.min(Integer.MAX_VALUE, size
);
}

```

```

public long size64() {
 return size;
}

public boolean isEmpty() {
 return size == 0;
}

/** Returns a deep copy of this big set.
 *
 * <P>This method performs a deep copy of this big hash set; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this big set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_BIG_SET KEY_GENERIC clone() {
 OPEN_HASH_BIG_SET KEY_GENERIC c;
 try {
 c = (OPEN_HASH_BIG_SET KEY_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }
 c.key = BIG_ARRAYS.copy(key);
 c.containsNull = containsNull;
 return c;
}

/** Returns a hash code for this set.
 *
 * This method overrides the generic method provided by the superclass.
 * Since equals() is not overridden, it is important
 * that the value returned by this method is the same value as
 * the one returned by the
 * overridden method.
 *
 * @return a hash code for this set.
 */

public int hashCode() {
 final KEY_GENERIC_TYPE key[][] = this.key;
 int h = 0, base = 0, displ = 0;

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for(long j = realSize(); j-- != 0;) {
 while(KEY_IS_NULL(key[base][displ])) base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0
));
}
#endif
return h;
}

```

```

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 final KEY_ITERATOR KEY_GENERIC i = iterator();
 s.defaultWriteObject();
 for(long j = size; j-- != 0;) s.WRITE_KEY(i.NEXT_KEY());
}

```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
}

```

```

n = bigArraySize(size, f);
maxFill =
maxFill(n, f);

```

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final KEY_GENERIC_TYPE[][] key = this.key = KEY_GENERIC_BIG_ARRAY_CAST
BIG_ARRAYS.newBigArray(n);

```

```

initMasks();

```

```

long h;
KEY_GENERIC_TYPE k;
int base, displ;

```

```

for(long i = size; i-- != 0;) {
 k = KEY_GENERIC_CAST s.READ_KEY();
}

```

```

if (KEY_IS_NULL(k)) containsNull = true;
else {
 h = KEY2LONGHASH(k);
 if (! KEY_IS_NULL(key[base = (int)((h & mask) >>> BigArrays.SEGMENT_SHIFT)][displ = (int)(h &
segmentMask)]))
 while(! KEY_IS_NULL(key[base = (base + ((displ = (displ + 1) & segmentMask) == 0 ? 1 : 0)) & baseMask
][displ]));
 key[base][displ] = k;
}

```

```

 }
}

if (ASSERTS) checkTable();
}

#ifdef ASSERTS_CODE
private void checkTable() {
 assert (n & -n) == n : "Table length is not a power of two: " + n;
 assert n == BIG_ARRAYS.length(key);
 long n = this.n;
 while(n-- != 0)
 if (! KEY_IS_NULL(BIG_ARRAYS.get(key, n)) && ! contains(BIG_ARRAYS.get(key, n)))
 throw new
AssertionError("Hash table has key " + BIG_ARRAYS.get(key, n) + " marked as occupied, but the key does not
belong to the table");

 #if #keys(primitive)
 java.util.HashSet<KEY_GENERIC_CLASS> s = new java.util.HashSet<KEY_GENERIC_CLASS> ();
 #else
 java.util.HashSet<Object> s = new java.util.HashSet<Object>();
 #endif

 for(long i = size(); i-- != 0;)
 if (! KEY_IS_NULL(BIG_ARRAYS.get(key, i)) && ! s.add(BIG_ARRAYS.get(key, i))) throw new
AssertionError("Key " + BIG_ARRAYS.get(key, i) + " appears twice");

}
#else
private void checkTable() {}
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)r.nextInt();
 #elif #keys(primitive)
 return r.NEXT_KEY();
 #elif #keyclass(Object)
 return Integer.toBinaryString(r.nextInt());
 #else
 return new java.io.Serializable()

```

```
};
#endif
}
```

```
private static final class ArrayComparator implements java.util.Comparator {
 public int compare(Object a, Object b) {
 byte[] aa = (byte[])a;
 byte[] bb = (byte[])b;
 int length = Math.min(aa.length, bb.length);
 for(int i = 0; i < length; i++) {
 if (aa[i] < bb[i]) return -1;
 if (aa[i] > bb[i]) return 1;
 }
 return aa.length == bb.length ? 0 : (aa.length < bb.length ? -1 : 1);
 }
}
```

```
private static final class MockSet extends java.util.TreeSet {
 private java.util.List list = new java.util.ArrayList();
```

```
 public MockSet(java.util.Comparator c) { super(c); }
```

```
 public boolean add(Object k) {
 if (! contains(k)) list.add(k);
 return super.add(k);
 }
```

```
 public boolean addAll(Collection c) {
 java.util.Iterator i = c.iterator();
 boolean result = false;
 while(i.hasNext()) result |= add(i.next());
 return result;
 }
```

```
 public boolean removeAll(Collection c) {
 java.util.Iterator
 i = c.iterator();
 boolean result = false;
 while(i.hasNext()) result |= remove(i.next());
 return result;
 }
```

```
 public boolean remove(Object k) {
 if (contains(k)) {
 int i = list.size();
 while(i-- != 0) if (comparator().compare(list.get(i), k) == 0) {
 list.remove(i);
 }
 }
 }
```

```

 break;
 }
}
return super.remove(k);
}

private void justRemove(Object k) { super.remove(k); }

public java.util.Iterator iterator() {
return new java.util.Iterator() {
 final java.util.Iterator iterator = list.iterator();
 Object curr;
 public Object next() { return curr = iterator.next(); }
 public boolean hasNext() { return iterator.hasNext(); }
 public void remove() {
 justRemove(curr);
 iterator.remove();
 }
};
}
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition fp = new java.text.FieldPosition(0);

private static String
format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, fp).toString();
}

private static void speedTest(int n, float f, boolean comp) {
 int i, j;
 OPEN_HASH_BIG_SET m;
 java.util.HashSet t;

 KEY_TYPE k[] = new KEY_TYPE[n];
 KEY_TYPE nk[] = new KEY_TYPE[n];
 long ms;

 for(i = 0; i < n; i++) {
 k[i] = genKey();
 nk[i] = genKey();
 }

 double totAdd = 0, totYes = 0, totNo = 0, totIter = 0, totRemYes = 0, totRemNo = 0, d;

 if (comp) { for(j = 0; j < 20; j++) {

```

```

t = new java.util.HashSet(16);

/* We add pairs to t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.add(KEY2OBJ(k[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totAdd += d;
System.out.print("Add: " + format(d) + " K/s ");

/* We check for pairs in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.contains(KEY2OBJ(k[i]));
d = 1.0 * n / (System.currentTimeMillis()
- ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + " K/s ");

/* We check for pairs not in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.contains(KEY2OBJ(nk[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totNo += d;
System.out.print("No: " + format(d) + " K/s ");

/* We iterate on t. */
ms = System.currentTimeMillis();
for(java.util.Iterator it = t.iterator(); it.hasNext(); it.next());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIter += d;
System.out.print("Iter: " + format(d) + " K/s ");

/* We delete pairs not in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.remove(KEY2OBJ(nk[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totRemNo += d;
System.out.print("RemNo: " + format(d) + " K/s ");

/* We delete pairs in t. */
ms = System.currentTimeMillis();
for(
i = 0; i < n; i++) t.remove(KEY2OBJ(k[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totRemYes += d;
System.out.print("RemYes: " + format(d) + " K/s ");

System.out.println();

```



```

}

System.out.println();
System.out.println("java.util Add: " + format(totAdd/(j-3)) + " K/s Yes: " + format(totYes/(j-3)) + " K/s No: " +
format(totNo/(j-3)) + " K/s Iter: " + format(totIter/(j-3)) + " K/s RemNo: " + format(totRemNo/(j-3)) + " K/s
RemYes: " + format(totRemYes/(j-3)) + "K/s");

System.out.println();

totAdd = totYes = totNo = totIter = totRemYes = totRemNo = 0;
}

for(j = 0; j < 20; j++) {

m = new OPEN_HASH_BIG_SET(16, f);

/* We add pairs to m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.add(k[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totAdd += d;
System.out.print("Add: " + format(d) + " K/s ");

/* We check for pairs
in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.contains(k[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + " K/s ");

/* We check for pairs not in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.contains(nk[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totNo += d;
System.out.print("No: " + format(d) + " K/s ");

/* We iterate on m. */
ms = System.currentTimeMillis();
for(KEY_ITERATOR it = (KEY_ITERATOR)m.iterator(); it.hasNext(); it.NEXT_KEY());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIter += d;
System.out.print("Iter: " + format(d) + " K/s ");

/* We delete pairs not in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.remove(nk[i]);

```

```

d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totRemNo += d;
System.out.print("RemNo:
" + format(d) + " K/s ");

/* We delete pairs in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.remove(k[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totRemYes += d;
System.out.print("RemYes: " + format(d) + " K/s ");

System.out.println();
}

System.out.println();
System.out.println("fastutil Add: " + format(totAdd/(j-3)) + " K/s Yes: " + format(totYes/(j-3)) + " K/s No: " +
format(totNo/(j-3)) + " K/s Iter: " + format(totIter/(j-3)) + " K/s RemNo: " + format(totRemNo/(j-3)) + " K/s
RemYes: " + format(totRemYes/(j-3)) + " K/s");

System.out.println();
}

private static void fatal(String msg) {
System.out.println(msg);
System.exit(1);
}

private static void ensure(boolean cond, String msg) {
if (cond) return;
fatal(msg);
}

private static void printProbes(OPEN_HASH_BIG_SET m) {
long totProbes = 0;
double totSquareProbes = 0;
int
maxProbes = 0;
final double f = (double)m.size / m.n;
for(int i = 0, c = 0; i < m.n; i++) {
if (! KEY_IS_NULL(BIG_ARRAYS.get(m.key, i))) c++;
else {
if (c != 0) {
final long p = (c + 1) * (c + 2) / 2;
totProbes += p;
}
}
}
}

```

```

 totSquareProbes += (double)p * p;
}
maxProbes = Math.max(c, maxProbes);
c = 0;
totProbes++;
totSquareProbes++;
}
}

final double expected = (double)totProbes / m.n;
System.err.println("Expected probes: " + (
 3 * Math.sqrt(3) * (f / ((1 - f) * (1 - f))) + 4 / (9 * f) - 1
) + "; actual: " + expected + "; stddev: " + Math.sqrt(totSquareProbes / m.n - expected * expected) + "; max
probes: " + maxProbes);
}
private static void test(int n, float f) {
 int c;
 OPEN_HASH_BIG_SET m = new OPEN_HASH_BIG_SET(Hash.DEFAULT_INITIAL_SIZE, f);
 java.util.Set t = new java.util.HashSet();

 /* First of all, we fill t with random data. */

 for(int i=0; i<f * n; i++) t.add(KEY2OBJ(genKey()));

 /* Now we add to m the same data */

 m.addAll(t);

 if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after insertion");
 if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after insertion");
 printProbes(m);

 /* Now we check that m actually holds that data. */

 for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 Object e = i.next();
 if (!m.contains(e)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after insertion (iterating on t)");
 System.exit(1);
 }
 }

 /* Now we check that m actually holds that data, but iterating on m. */

 c = 0;
 for(java.util.Iterator i=m.iterator(); i.hasNext();) {
 Object e = i.next();

```

```

c++;
if (!t.contains(e)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after insertion (iterating on m)");
 System.exit(1);
}
}

if (c != t.size()) {
 System.out.println("Error
(" + seed + "): m has only " + c + " keys instead of " + t.size() + " after insertion (iterating on m)");
 System.exit(1);
}
/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 if (m.contains(T) != t.contains(KEY2OBJ(T))) {
 System.out.println("Error (" + seed + "): divergence in keys between t and m (polymorphic method)");
 System.exit(1);
 }
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 if (m.contains(KEY2OBJ(T)) != t.contains(KEY2OBJ(T))) {
 System.out.println("Error (" + seed + "): divergence between t and m (standard method)");
 System.exit(1);
 }
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++)
) {
 KEY_TYPE T = genKey();
 if (m.add(KEY2OBJ(T)) != t.add(KEY2OBJ(T))) {
 System.out.println("Error (" + seed + "): divergence in add() between t and m");
 System.exit(1);
 }
 T = genKey();
 if (m.remove(KEY2OBJ(T)) != t.remove(KEY2OBJ(T))) {
 System.out.println("Error (" + seed + "): divergence in remove() between t and m");
 System.exit(1);
 }
}

```

```

 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after removal");

/* Now we check that m actually holds that data. */

for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 Object e = i.next();
 if (!m.contains(e)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after removal (iterating on t)");
 System.exit(1);
 }
}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext();
) {
 Object e = i.next();
 if (!t.contains(e)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after removal (iterating on m)");
 System.exit(1);
 }
}

printProbes(m);

/* Now we make m into an array, make it again a set and check it is OK. */
KEY_TYPE a[] = m.TO_KEY_ARRAY();

if (!new OPEN_HASH_BIG_SET(a).equals(m))
 System.out.println("Error (" + seed + "): toArray() output (or array-based constructor) is not OK");

/* Now we check cloning. */

ensure(m.equals(((OPEN_HASH_BIG_SET)m).clone()), "Error (" + seed + "): m does not equal m.clone()");
ensure(((OPEN_HASH_BIG_SET)m).clone().equals(m), "Error (" + seed + "): m.clone() does not equal m");

int h = m.hashCode();

/* Now we save and read m. */

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

```

```

oos.writeObject(m);
oos.close();

java.io.InputStream
is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m = (OPEN_HASH_BIG_SET)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit(1);
}

#if !#keyclass(Reference)
if (m.hashCode() != h) System.out.println("Error (" + seed + "): hashCode() changed after save/read");

printProbes(m);

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext();) {
Object e = i.next();
if (!t.contains(e)) {
System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after save/read");
System.exit(1);
}
}
#else
m.clear();
m.addAll(t);
#endif

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
KEY_TYPE
T = genKey();
if (m.add(KEY2OBJ(T)) != t.add(KEY2OBJ(T))) {
System.out.println("Error (" + seed + "): divergence in add() between t and m after save/read");
System.exit(1);
}
T = genKey();
if (m.remove(KEY2OBJ(T)) != t.remove(KEY2OBJ(T))) {
System.out.println("Error (" + seed + "): divergence in remove() between t and m after save/read");
}
}

```

```

 System.exit(1);
}
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after post-save/read removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after post-save/read removal");

/* Now we take out of m everything, and check that it is empty. */

for(java.util.Iterator i=m.iterator(); i.hasNext();) { i.next(); i.remove();}

if (!m.isEmpty()) {
 System.out.println("Error (" + seed + "): m is not empty (as it should be)");
 System.exit(1);
}

#if #keyclass(Integer) || #keyclass(Long)
 m = new OPEN_HASH_BIG_SET(n, f);
 t.clear();
 int x;

/*
Now we torture-test the hash table. This part is implemented only for integers and longs. */

 int p = m.key.length - 1;

 for(int i=0; i<p; i++) {
 for (int j=0; j<20; j++) {
 m.add(i+(r.nextInt() % 10)*p);
 m.remove(i+(r.nextInt() % 10)*p);
 }

 for (int j=-10; j<10; j++) m.remove(i+j*p);
 }

 t.addAll(m);

/* Now all table entries are REMOVED. */

 int k = 0;
 for(int i=0; i<(p*f)/10; i++) {
 for (int j=0; j<10; j++) {
 k++;
 x = i+(r.nextInt() % 10)*p;
 if (m.add(x) != t.add(KEY2OBJ(x)))
 System.out.println("Error (" + seed + "): m and t differ on a key during torture-test insertion.");
 }
 }

```

```

}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test insertion");

for(int i=0; i<(p*f)/10; i++) {
 for (int j=0; j<10; j++) {
 x = i+(r.nextInt() % 10)*p;
 if (m.remove(x) != t.remove(KEY2OBJ(x)))
 System.out.println("Error
(" + seed + "): m and t differ on a key during torture-test removal.");
 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test removal");

if (!m.equals(m.clone())) System.out.println("Error (" + seed + "): !m.equals(m.clone()) after torture-test removal");
if (!(OPEN_HASH_BIG_SET)m.clone().equals(m)) System.out.println("Error (" + seed + "): !m.clone().equals(m)
after torture-test removal");

m.rehash();

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after rehash()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after rehash()");

#endif

System.out.println("Test OK");
return;
}

public static void main(String args[]) {
 float f = Hash.DEFAULT_LOAD_FACTOR;
 int n = Integer.parseInt(args[1]);
 if (args.length>2) f = Float.parseFloat(args[2]);
 if
 (args.length > 3) r = new java.util.Random(seed = Long.parseLong(args[3]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, f, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n, f);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}
}

```



```
#endif
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/OpenHashBigSet.drv
```

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

```
/*
```

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```
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.AbstractObjectSortedSet;
```

```
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
```

```
import it.unimi.dsi.fastutil.objects.ObjectListIterator;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;
```

```
import VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;
```

```
import
```

```
VALUE_PACKAGE.VALUE_ITERATOR;
```

```
import java.util.Comparator;
```

```
import java.util.Iterator;
```

```
import java.util.Map;
```

```
import java.util.SortedMap;
```

```
import java.util.NoSuchElementException;
```

```
#if #values(primitive)
```

```
import VALUE_PACKAGE.VALUE_LIST_ITERATOR;
```

```
#endif
```

```
/** A type-specific AVL tree map with a fast, small-footprint implementation.
```

```

*
* <P>The iterators provided by the views of this class are type-specific { @linkplain
* it.unimi.dsi.fastutil.BidirectionalIterator bidirectional iterators}.
* Moreover, the iterator returned by <code>iterator()</code> can be safely cast
* to a type-specific { @linkplain java.util.ListIterator list iterator}.
*/

public class AVL_TREE_MAP KEY_VALUE_GENERIC extends ABSTRACT_SORTED_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {

 /** A reference to the root entry. */
 protected transient Entry KEY_VALUE_GENERIC tree;

 /** Number of entries in this map. */
 protected int count;

 /** The first key in this
 map. */
 protected transient Entry KEY_VALUE_GENERIC firstEntry;

 /** The last key in this map. */
 protected transient Entry KEY_VALUE_GENERIC lastEntry;

 /** Cached set of entries. */
 protected transient volatile ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> entries;

 /** Cached set of keys. */
 protected transient volatile SORTED_SET KEY_GENERIC keys;

 /** Cached collection of values. */
 protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

 /** The value of this variable remembers, after a <code>put()</code>
 * or a <code>remove()</code>, whether the domain of the map
 * has been modified. */
 protected transient boolean modified;

 /** This map's comparator, as provided in the constructor. */
 protected Comparator<? super KEY_GENERIC_CLASS> storedComparator;

 /** This map's actual comparator; it may differ from { @link #storedComparator} because it is
 always a type-specific comparator, so it could be derived from the former by wrapping. */
 protected
 transient KEY_COMPARATOR KEY_SUPER_GENERIC actualComparator;

 private static final long serialVersionUID = -7046029254386353129L;

 private static final boolean ASSERTS = ASSERTS_VALUE;

```

```

{
 allocatePaths();
}

/** Creates a new empty tree map.
 */

public AVL_TREE_MAP() {
 tree = null;
 count = 0;
}

/** Generates the comparator that will be actually used.
 *
 * <P>When a specific {@link Comparator} is specified and stored in {@link
 * #storedComparator}, we must check whether it is type-specific. If it is
 * so, we can used directly, and we store it in {@link #actualComparator}. Otherwise,
 * we generate on-the-fly an anonymous class that wraps the non-specific {@link Comparator}
 * and makes it into a type-specific one.
 */
private void setActualComparator() {
 #if #keyclass(Object)
 actualComparator = storedComparator;
 #else
 /* If the provided comparator is already type-specific, we use it. Otherwise,
 we use a wrapper anonymous class to fake that
 it is type-specific. */
 if (storedComparator == null || storedComparator instanceof KEY_COMPARATOR) actualComparator =
 (KEY_COMPARATOR)storedComparator;
 else actualComparator = new KEY_COMPARATOR KEY_SUPER_GENERIC() {
 public int compare(KEY_GENERIC_TYPE k1, KEY_GENERIC_TYPE k2) {
 return storedComparator.compare(KEY2OBJ(k1), KEY2OBJ(k2));
 }
 public int compare(KEY_GENERIC_CLASS ok1, KEY_GENERIC_CLASS ok2) {
 return storedComparator.compare(ok1, ok2);
 }
 };
 #endif
}

/** Creates a new empty tree map with the given comparator.
 *
 * @param c a (possibly type-specific) comparator.
 */

public AVL_TREE_MAP(final Comparator<? super KEY_GENERIC_CLASS> c) {

```

```
this();
storedComparator = c;
setActualComparator();
}
```

```
/** Creates a new tree map copying a given map.
```

```
*
```

```
* @param m a {@link Map} to be copied into the new tree map.
```

```
*/
```

```
public AVL_TREE_MAP(final Map<? extends KEY_GENERIC_CLASS, ? extends
VALUE_GENERIC_CLASS> m) {
 this();
 putAll(
m);
}
```

```
/** Creates a new tree map copying a given sorted map (and its {@link Comparator}).
```

```
*
```

```
* @param m a {@link SortedMap} to be copied into the new tree map.
```

```
*/
```

```
public AVL_TREE_MAP(final SortedMap<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> m) {
 this(m.comparator());
 putAll(m);
}
```

```
/** Creates a new tree map copying a given map.
```

```
*
```

```
* @param m a type-specific map to be copied into the new tree map.
```

```
*/
```

```
public AVL_TREE_MAP(final MAP KEY_VALUE_EXTENDS_GENERIC m) {
 this();
 putAll(m);
}
```

```
/** Creates a new tree map copying a given sorted map (and its {@link Comparator}).
```

```
*
```

```
* @param m a type-specific sorted map to be copied into the new tree map.
```

```
*/
```

```
public AVL_TREE_MAP(final SORTED_MAP KEY_VALUE_GENERIC m) {
 this(m.comparator());
 putAll(m);
}
```

```

/** Creates a new tree map using the elements of two parallel arrays and the given comparator.
 *
 * @param k the array of keys of the new tree map.
 * @param v the array
of corresponding values in the new tree map.
 * @param c a (possibly type-specific) comparator.
 * @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
 */

public AVL_TREE_MAP(final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE v[], final
Comparator<? super KEY_GENERIC_CLASS> c) {
 this(c);
 if (k.length != v.length) throw new IllegalArgumentException("The key array and the value array have different
lengths (" + k.length + " and " + v.length + "));
 for(int i = 0; i < k.length; i++) this.put(k[i], v[i]);
}

/** Creates a new tree map using the elements of two parallel arrays.
 *
 * @param k the array of keys of the new tree map.
 * @param v the array of corresponding values in the new tree map.
 * @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
 */

public AVL_TREE_MAP(final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE v[]) {
 this(k, v, null);
}

/**
 *
 * The following methods implements some basic building blocks used by
 * all accessors. They are (and should be maintained) identical to those used in AVLTreeSet.drv.
 *
 * The put()/remove() code is derived from Ben Pfaff's GNU libavl
 * (http://www.msu.edu/~pfaffben/avl/). If you want to understand what's
 * going on, you should have a look at the literate code contained therein
 * first.
 */

/** Compares two keys in the right way.
 *
 * <P>This method uses the { @link #actualComparator } if it is non-null</code>.
 * Otherwise, it resorts to primitive type comparisons or to { @link Comparable#compareTo(Object) compareTo() }.
 *
 * @param k1 the first key.
 * @param k2 the second key.
 * @return a number smaller than, equal to or greater than 0, as usual

```

\* (i.e., when  $k_1 \leq k_2$ ,  $k_1 = k_2$  or  $k_1 > k_2$ , respectively).

\*/

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```
final int compare(final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2) {
 return actualComparator
 == null ? KEY_CMP(k1, k2) : actualComparator.compare(k1, k2);
}
```

/\*\* Returns the entry corresponding to the given key, if it is in the tree; `null`, otherwise.

\*

\* @param k the key to search for.

\* @return the corresponding entry, or `null` if no entry with the given key exists.

\*/

```
final Entry KEY_VALUE_GENERIC findKey(final KEY_GENERIC_TYPE k) {
 Entry KEY_VALUE_GENERIC e = tree;
 int cmp;
```

```
while (e != null && (cmp = compare(k, e.key)) != 0) e = cmp < 0 ? e.left() : e.right();
```

```
return e;
```

```
}
```

/\*\* Locates a key.

\*

\* @param k a key.

\* @return the last entry on a search for the given key; this will be

\* the given key, if it present; otherwise, it will be either the smallest greater key or the greatest smaller key.

\*/

```
final Entry KEY_VALUE_GENERIC locateKey(final KEY_GENERIC_TYPE k) {
 Entry KEY_VALUE_GENERIC e = tree, last = tree;
 int cmp = 0;
```

```
while (e != null && (cmp = compare(k, e.key)) != 0) {
```

```
 last
```

```
 = e;
```

```
 e = cmp < 0 ? e.left() : e.right();
```

```
}
```

```
return cmp == 0 ? e : last;
```

```
}
```

/\*\* This vector remembers the directions followed during

\* the current insertion. It suffices for about  $2^{32}$  entries. \*/

```

private transient boolean dirPath[];

private void allocatePaths() {
 dirPath = new boolean[48];
}

#if #values(primitive) && !#valueclass(Boolean)
/** Adds an increment to value currently associated with a key.
 *
 * <P>Note that this method respects the { @linkplain #defaultReturnValue() default return value } semantics: when
 * called with a key that does not currently appears in the map, the key
 * will be associated with the default return value plus
 * the given increment.
 *
 * @param k the key.
 * @param incr the increment.
 * @return the old value, or the { @linkplain #defaultReturnValue() default return value } if no value was present for
the given key.
 */
public VALUE_GENERIC_TYPE addTo(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE incr)
{
 Entry KEY_VALUE_GENERIC e = add(k);
 final VALUE_GENERIC_TYPE oldValue = e.value;
 e.value += incr;
 return oldValue;
}
#endif

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 Entry KEY_VALUE_GENERIC e = add(k);
 final VALUE_GENERIC_TYPE oldValue = e.value;
 e.value = v;
 return oldValue;
}

/** Returns a node with key k in the balanced tree, creating one with defRetVal if necessary.
 *
 * @param k the key
 * @return a node with key k. If a node with key k already exists, then that node is returned,
 * otherwise a new node with defRetVal is created ensuring that the tree is balanced
 * after creation of the node.
 */
private Entry KEY_VALUE_GENERIC add(final KEY_GENERIC_TYPE k) {
 /* After execution of this method, modified is true iff a new entry has
 been inserted. */
 modified = false;

 Entry KEY_VALUE_GENERIC e = null;

```

```

if (tree == null) { // The case of the empty tree is treated separately.
 count++;
 e
= tree = lastEntry = firstEntry = new Entry KEY_VALUE_GENERIC(k, defRetVal);
 modified = true;
}
else {
 Entry KEY_VALUE_GENERIC p = tree, q = null, y = tree, z = null, w = null;
 int cmp, i = 0;

 while(true) {
 if ((cmp = compare(k, p.key)) == 0) {
 return p;
 }

 if (p.balance() != 0) {
 i = 0;
 z = q;
 y = p;
 }

 if (dirPath[i++] = cmp > 0) {
 if (p.succ()) {
 count++;
 e = new Entry KEY_VALUE_GENERIC(k, defRetVal);

 modified = true;
 if (p.right == null) lastEntry = e;

 e.left = p;
 e.right = p.right;

 p.right(e);

 break;
 }

 q = p;
 p = p.right;
 }
 else {
 if (p.pred()) {
 count++;
 e = new Entry KEY_VALUE_GENERIC(k, defRetVal);

 modified = true;
 if (p.left == null) firstEntry = e;

```



```

 e.right = p;
 e.left = p.left;

 p.left(
e);

 break;
}

q = p;
p = p.left;
}
}

p = y;
i = 0;

while(p != e) {
 if (dirPath[i]) p.incBalance();
 else p.decBalance();

 p = dirPath[i++] ? p.right : p.left;
}

if (y.balance() == -2) {
 Entry KEY_VALUE_GENERIC x = y.left;

 if (x.balance() == -1) {
 w = x;
 if (x.succ()) {
 x.succ(false);
 y.pred(x);
 }
 else y.left = x.right;

 x.right = y;
 x.balance(0);
 y.balance(0);
 }
 else {
 if (ASSERTS) assert x.balance() == 1;

 w = x.right;
 x.right = w.left;
 w.left = x;
 y.left = w.right;
 w.right = y;
 if (w.balance() == -1) {

```

```

x.balance(0);
y.balance(1);
}
else if (w.balance() == 0) {
x.balance(0);
y.balance(0);
}
else {
x.balance(-1);
y.balance(0);
}
w.balance(0);

if (w.pred()) {
x.succ(w);
w.pred(false);
}
if
(w.succ()) {
y.pred(w);
w.succ(false);
}

}
}
else if (y.balance() == +2) {
Entry KEY_VALUE_GENERIC x = y.right;

if (x.balance() == 1) {
w = x;
if (x.pred()) {
x.pred(false);
y.succ(x);
}
else y.right = x.left;

x.left = y;
x.balance(0);
y.balance(0);
}
else {
if (ASSERTS) assert x.balance() == -1;

w = x.left;
x.left = w.right;
w.right = x;
y.right = w.left;

```

```

w.left = y;
if (w.balance() == 1) {
 x.balance(0);
 y.balance(-1);
}
else if (w.balance() == 0) {
 x.balance(0);
 y.balance(0);
}
else {
 x.balance(1);
 y.balance(0);
}
w.balance(0);

if (w.pred()) {
 y.succ(w);
 w.pred(false);
}
if (w.succ()) {
 x.pred(w);
 w.succ(false);
}

}
}
else return e;

if (z == null) tree = w;
else {
 if
(z.left == y) z.left = w;
 else z.right = w;
}
}

if (ASSERTS) checkTree(tree);
return e;
}

/** Finds the parent of an entry.
 *
 * @param e a node of the tree.
 * @return the parent of the given node, or <code>null</code> for the root.
 */

private Entry KEY_VALUE_GENERIC parent(final Entry KEY_VALUE_GENERIC e) {

```

```

if (e == tree) return null;

Entry KEY_VALUE_GENERIC x, y, p;
x = y = e;

while(true) {
if (y.succ()) {
p = y.right;
if (p == null || p.left != e) {
while(! x.pred()) x = x.left;
p = x.left;
}
return p;
}
else if (x.pred()) {
p = x.left;
if (p == null || p.right != e) {
while(! y.succ()) y = y.right;
p = y.right;
}
return p;
}

x = x.left;
y = y.right;
}
}

/* After execution of this method, { @link #modified } is true iff an entry
has been deleted. */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE REMOVE_VALUE(final KEY_TYPE k
) {
modified = false;

if (tree == null) return defRetVal;

int cmp;
Entry KEY_VALUE_GENERIC p = tree, q = null;
boolean dir = false;
final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;

while(true) {
if ((cmp = compare(kk, p.key)) == 0) break;
else if (dir = cmp > 0) {
q = p;

```

```

 if ((p = p.right()) == null) return defRetVal;
 }
 else {
 q = p;
 if ((p = p.left()) == null) return defRetVal;
 }
}

if (p.left == null) firstEntry = p.next();
if (p.right == null) lastEntry = p.prev();

if (p.succ()) {
 if (p.pred()) {
 if (q != null) {
 if (dir) q.succ(p.right);
 else q.pred(p.left);
 }
 else tree = dir ? p.right : p.left;
 }
 else {
 p.prev().right = p.right;

 if (q != null) {
 if (dir) q.right = p.left;
 else q.left = p.left;
 }
 else tree = p.left;
 }
}
else {
 Entry KEY_VALUE_GENERIC r = p.right;

 if (r.pred()) {
 r.left = p.left;
 r.pred(
p.pred());
 if (! r.pred()) r.prev().right = r;
 if (q != null) {
 if (dir) q.right = r;
 else q.left = r;
 }
 else tree = r;

 r.balance(p.balance());
 q = r;
 dir = true;
 }
}

```

```

else {
 Entry KEY_VALUE_GENERIC s;

 while(true) {
 s = r.left;
 if (s.pred()) break;
 r = s;
 }

 if (s.succ()) r.pred(s);
 else r.left = s.right;

 s.left = p.left;

 if (! p.pred()) {
 p.prev().right = s;
 s.pred(false);
 }

 s.right = p.right;
 s.succ(false);

 if (q != null) {
 if (dir) q.right = s;
 else q.left = s;
 }
 else tree = s;

 s.balance(p.balance());
 q = r;
 dir = false;
}
}

Entry KEY_VALUE_GENERIC y;

while(q != null) {
 y = q;
 q = parent(y);

 if (! dir) {
 dir = q != null && q.left != y;
 y.incBalance();
 }

 if (y.balance() == 1) break;
 else if (y.balance() == 2) {

 Entry KEY_VALUE_GENERIC x = y.right;

```

```

if
(ASSERTS) assert x != null;

if (x.balance() == -1) {
 Entry KEY_VALUE_GENERIC w;

 if (ASSERTS) assert x.balance() == -1;

 w = x.left;
 x.left = w.right;
 w.right = x;
 y.right = w.left;
 w.left = y;

 if (w.balance() == 1) {
 x.balance(0);
 y.balance(-1);
 }
 else if (w.balance() == 0) {
 x.balance(0);
 y.balance(0);
 }
 else {
 if (ASSERTS) assert w.balance() == -1;

 x.balance(1);
 y.balance(0);
 }

 w.balance(0);

 if (w.pred()) {
 y.succ(w);
 w.pred(false);
 }
 if (w.succ()) {
 x.pred(w);
 w.succ(false);
 }

 if (q != null) {
 if (dir) q.right = w;
 else q.left = w;
 }
 else tree = w;
}
else {
 if (q != null) {

```

```

 if (dir) q.right = x;
 else q.left = x;
}
else tree = x;

if
(x.balance() == 0) {
 y.right = x.left;
 x.left = y;
 x.balance(-1);
 y.balance(+1);
 break;
}
if (ASSERTS) assert x.balance() == 1;

if (x.pred()) {
 y.succ(true);
 x.pred(false);
}
else y.right = x.left;

x.left = y;
y.balance(0);
x.balance(0);
}
}
}
else {
 dir = q != null && q.left != y;
 y.decBalance();

 if (y.balance() == -1) break;
 else if (y.balance() == -2) {

 Entry KEY_VALUE_GENERIC x = y.left;
 if (ASSERTS) assert x != null;

 if (x.balance() == 1) {
 Entry KEY_VALUE_GENERIC w;

 if (ASSERTS) assert x.balance() == 1;

 w = x.right;
 x.right = w.left;
 w.left = x;
 y.left = w.right;
 w.right = y;

```



```

if (w.balance() == -1) {
 x.balance(0);
 y.balance(1);
}
else if (w.balance() == 0) {
 x.balance(0);
 y.balance(0);
}
else
{
 if (ASSERTS) assert w.balance() == 1;

 x.balance(-1);
 y.balance(0);
}

w.balance(0);

if (w.pred()) {
 x.succ(w);
 w.pred(false);
}
if (w.succ()) {
 y.pred(w);
 w.succ(false);
}

if (q != null) {
 if (dir) q.right = w;
 else q.left = w;
}
else tree = w;
}
else {
 if (q != null) {
 if (dir) q.right = x;
 else q.left = x;
 }
 else tree = x;
}

if (x.balance() == 0) {
 y.left = x.right;
 x.right = y;
 x.balance(+1);
 y.balance(-1);
 break;
}
if (ASSERTS) assert x.balance() == -1;

```

```

 if (x.succ()) {
 y.pred(true);
 x.succ(false);
 }
 else y.left = x.right;

 x.right = y;
 y.balance(0);
 x.balance(0);
 }
 }
 }
 }

 modified = true;
 count--;
 if (ASSERTS) checkTree(
tree);
 return p.value;
 }

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov)
{
 final VALUE_GENERIC_TYPE oldValue = put(KEY_CLASS2TYPE(ok), VALUE_CLASS2TYPE(ov));
 return modified ? OBJECT_DEFAULT_RETURN_VALUE : VALUE2OBJ(oldValue);
}
#endif

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS remove(final Object ok) {
 final VALUE_GENERIC_TYPE oldValue = REMOVE_VALUE(KEY_OBJ2TYPE(ok));
 return modified ? VALUE2OBJ(oldValue) : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

```

```

public boolean containsValue(final VALUE_TYPE v) {
 final ValueIterator i = new ValueIterator();
 VALUE_GENERIC_TYPE ev;

 int j = count;
 while(
j-- != 0) {
 ev = i.NEXT_VALUE();
 if (VALUE_EQUALS(ev, v)) return true;
 }

 return false;
}

public void clear() {
 count = 0;
 tree = null;
 entries = null;
 values = null;
 keys = null;
 firstEntry = lastEntry = null;
}

/** This class represent an entry in a tree map.
 *
 * <P>We use the only "metadata", i.e., { @link Entry#info}, to store
 * information about balance, predecessor status and successor status.
 *
 * <P>Note that since the class is recursive, it can be
 * considered equivalently a tree.
 */

private static final class Entry KEY_VALUE_GENERIC implements Cloneable, MAP.Entry
KEY_VALUE_GENERIC {
 /** If the bit in this mask is true, { @link #right} points to a successor. */
 private final static int SUCC_MASK = 1 << 31;
 /** If the bit in this mask is true, { @link #left} points to a predecessor. */
 private final static int PRED_MASK = 1 << 30;
 /** The bits in this mask hold the node balance info. You can get it just by
 casting to byte. */
 private final static int BALANCE_MASK = 0xFF;
 /** The key of this entry. */
 KEY_GENERIC_TYPE key;
 /** The value of this entry. */
 VALUE_GENERIC_TYPE value;
 /** The pointers to the left and right subtrees. */

```

```

Entry KEY_VALUE_GENERIC left, right;
/** This integers holds different information in different bits (see { @link #SUCC_MASK}, { @link
#PRED_MASK} and { @link #BALANCE_MASK}). */
int info;

Entry() {}

/** Creates a new entry with the given key and value.
 *
 * @param k a key.
 * @param v a value.
 */
Entry(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 this.key = k;
 this.value = v;
 info = SUCC_MASK | PRED_MASK;
}

/** Returns the left subtree.
 *
 * @return the left subtree (<code>>null</code> if the left
 * subtree is empty).
 */
Entry KEY_VALUE_GENERIC left() {
 return (info & PRED_MASK) != 0 ? null : left;
}

/** Returns the right subtree.
 *
 * @return the right subtree (<code>>null</code>
if the right
 * subtree is empty).
 */
Entry KEY_VALUE_GENERIC right() {
 return (info & SUCC_MASK) != 0 ? null : right;
}

/** Checks whether the left pointer is really a predecessor.
 * @return true if the left pointer is a predecessor.
 */
boolean pred() {
 return (info & PRED_MASK) != 0;
}

/** Checks whether the right pointer is really a successor.
 * @return true if the right pointer is a successor.
 */
boolean succ() {

```

```

return (info & SUCC_MASK) != 0;
}

/** Sets whether the left pointer is really a predecessor.
 * @param pred if true then the left pointer will be considered a predecessor.
 */
void pred(final boolean pred) {
 if (pred) info |= PRED_MASK;
 else info &= ~PRED_MASK;
}

/** Sets whether the right pointer is really a successor.
 * @param succ if true then the right pointer will be considered a successor.
 */
void succ(final boolean succ) {
 if (succ) info |= SUCC_MASK;
 else
info &= ~SUCC_MASK;
}

/** Sets the left pointer to a predecessor.
 * @param pred the predecessr.
 */
void pred(final Entry KEY_VALUE_GENERIC pred) {
 info |= PRED_MASK;
 left = pred;
}

/** Sets the right pointer to a successor.
 * @param succ the successor.
 */
void succ(final Entry KEY_VALUE_GENERIC succ) {
 info |= SUCC_MASK;
 right = succ;
}

/** Sets the left pointer to the given subtree.
 * @param left the new left subtree.
 */
void left(final Entry KEY_VALUE_GENERIC left) {
 info &= ~PRED_MASK;
 this.left = left;
}

/** Sets the right pointer to the given subtree.
 * @param right the new right subtree.
 */
void right(final Entry KEY_VALUE_GENERIC right) {

```

```

info &= ~SUCC_MASK;
this.right = right;
}

/** Returns the current level of the node.
 * @return the current level of this node.
 */
int balance() {
return (byte)info;
}

/** Sets the level of this node.
 * @param
level the new level of this node.
 */
void balance(int level) {
info &= ~BALANCE_MASK;
info |= (level & BALANCE_MASK);
}

/** Increments the level of this node. */
void incBalance() {
info = info & ~BALANCE_MASK | ((byte)info + 1) & 0xFF;
}

/** Decrements the level of this node. */
protected void decBalance() {
info = info & ~BALANCE_MASK | ((byte)info - 1) & 0xFF;
}

/** Computes the next entry in the set order.
 *
 * @return the next entry (<code>>null</code>) if this is the last entry).
 */
Entry KEY_VALUE_GENERIC next() {
Entry KEY_VALUE_GENERIC next = this.right;
if ((info & SUCC_MASK) == 0) while ((next.info & PRED_MASK) == 0) next = next.left;
return next;
}

/** Computes the previous entry in the set order.
 *
 * @return the previous entry (<code>>null</code>) if this is the first entry).
 */
Entry KEY_VALUE_GENERIC prev() {
Entry KEY_VALUE_GENERIC prev = this.left;

```

```

 if ((info & PRED_MASK
) == 0) while ((prev.info & SUCC_MASK) == 0) prev = prev.right;
 return prev;
}

#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
public KEY_GENERIC_CLASS getKey() {
 return KEY2OBJ(key);
}

#if !#keyclass(Object)
public KEY_GENERIC_TYPE ENTRY_GET_KEY() {
 return key;
}
#endif

#if #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
public VALUE_GENERIC_CLASS getValue() {
 return VALUE2OBJ(value);
}

#if #values(primitive)
public VALUE_TYPE ENTRY_GET_VALUE() {
 return value;
}
#endif

public VALUE_GENERIC_TYPE setValue(final VALUE_GENERIC_TYPE value) {
 final VALUE_GENERIC_TYPE oldValue = this.value;
 this.value = value;
 return oldValue;
}

#if #values(primitive)

public VALUE_GENERIC_CLASS setValue(final VALUE_GENERIC_CLASS value) {
 return
VALUE2OBJ(setValue(VALUE_CLASS2TYPE(value)));
}

```

```

#endif

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public Entry KEY_VALUE_GENERIC clone() {
 Entry KEY_VALUE_GENERIC c;
 try {
 c = (Entry KEY_VALUE_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.key = key;
 c.value = value;
 c.info = info;

 return c;
}

@SuppressWarnings("unchecked")
public boolean equals(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>)o;

 return KEY_EQUALS(key, KEY_CLASS2TYPE(e.getKey())) && VALUE_EQUALS(value,
VALUE_CLASS2TYPE(e.getValue()));
}

public int hashCode() {
 return KEY2JAVAHASH_NOT_NULL(key) ^ VALUE2JAVAHASH(value);
}

public String toString() {
 return key + "=>" + value;
}

/*
public void prettyPrint() {
 prettyPrint(0);
}

public
void prettyPrint(int level) {
 if (pred()) {
 for (int i = 0; i < level; i++)

```



```

 System.err.print(" ");
 System.err.println("pred: " + left);
 }
 else if (left != null)
 left.prettyPrint(level +1);
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println(key + "=" + value + " (" + balance() + ")");
 if (succ()) {
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println("succ: " + right);
 }
 else if (right != null)
 right.prettyPrint(level + 1);
 }
 */
}

/*
public void prettyPrint() {
 System.err.println("size: " + count);
 if (tree != null) tree.prettyPrint();
}
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey(final KEY_TYPE k) {
 return findKey(KEY_GENERIC_CAST k) != null;
}

public int size() {
 return count;
}

public boolean isEmpty() {
 return count == 0;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE(
final KEY_TYPE k) {
 final Entry KEY_VALUE_GENERIC e = findKey(KEY_GENERIC_CAST k);
 return e == null ? defRetVal : e.value;
}

#if #keyclass(Object) && #values(primitive)

```

```

/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS get(final Object ok) {
 final Entry KEY_VALUE_GENERIC e = findKey(KEY_GENERIC_CAST ok);
 return e == null ? OBJECT_DEFAULT_RETURN_VALUE : e.getValue();
}

#endif

public KEY_GENERIC_TYPE FIRST_KEY() {
 if (tree == null) throw new NoSuchElementException();
 return firstEntry.key;
}

public KEY_GENERIC_TYPE LAST_KEY() {
 if (tree == null) throw new NoSuchElementException();
 return lastEntry.key;
}

/** An abstract iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class TreeIterator {
 /** The entry that will be returned by the next call to {@link
 java.util.ListIterator#previous()} (or <code>>null</code> if no previous entry exists). */
 Entry KEY_VALUE_GENERIC prev;
 /** The entry that will be returned by the next call to {@link java.util.ListIterator#next()} (or <code>>null</code> if
 no next entry exists). */
 Entry KEY_VALUE_GENERIC next;
 /** The last entry that was returned (or <code>>null</code> if we did not iterate or used {@link #remove()}). */
 Entry KEY_VALUE_GENERIC curr;
 /** The current index (in the sense of a {@link java.util.ListIterator}). Note that this value is not meaningful when
 this {@link TreeIterator} has been created using the nonempty constructor. */
 int index = 0;

 TreeIterator() {
 next = firstEntry;
 }

 TreeIterator(final KEY_GENERIC_TYPE k) {
 if ((next = locateKey(k)) != null) {
 if (compare(next.key, k) <= 0) {

```

```

 prev = next;
 next = next.next();
}
else prev = next.prev();
}
}

public boolean hasNext() { return next != null; }
public boolean
hasPrevious() { return prev != null; }

void updateNext() {
 next = next.next();
}

Entry KEY_VALUE_GENERIC nextEntry() {
 if (! hasNext()) throw new NoSuchElementException();
 curr = prev = next;
 index++;
 updateNext();
 return curr;
}

void updatePrevious() {
 prev = prev.prev();
}

Entry KEY_VALUE_GENERIC previousEntry() {
 if (! hasPrevious()) throw new NoSuchElementException();
 curr = next = prev;
 index--;
 updatePrevious();
 return curr;
}

public int nextIndex() {
 return index;
}

public int previousIndex() {
 return index - 1;
}

public void remove() {
 if (curr == null) throw new IllegalStateException();
 /* If the last operation was a next(), we are removing an entry that preceeds
 the current index, and thus we must decrement it. */
 if (curr == prev) index--;
}

```

```

next = prev = curr;
updatePrevious();
updateNext();
AVL_TREE_MAP.this.REMOVE_VALUE(curr.key);
curr = null;
}

public
int skip(final int n) {
 int i = n;
 while(i-- != 0 && hasNext()) nextEntry();
 return n - i - 1;
}

public int back(final int n) {
 int i = n;
 while(i-- != 0 && hasPrevious()) previousEntry();
 return n - i - 1;
}
}

/** An iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class EntryIterator extends TreeIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
 EntryIterator() {}

 EntryIterator(final KEY_GENERIC_TYPE k) {
 super(k);
 }

 public MAP.Entry KEY_VALUE_GENERIC next() { return nextEntry(); }
 public MAP.Entry KEY_VALUE_GENERIC previous() { return previousEntry(); }

 public void set(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
 public void add(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
}

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() {
 if (entries == null
) entries = new AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>() {
 final Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator = new Comparator<MAP.Entry
KEY_VALUE_GENERIC> () {

```

```

public int compare(final MAP.Entry KEY_VALUE_GENERIC x, final MAP.Entry KEY_VALUE_GENERIC y)
{
 return AVL_TREE_MAP.this.actualComparator.compare(x.ENTRY_GET_KEY(), y.ENTRY_GET_KEY());
}
};

public Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator() {
 return comparator;
}

public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
 return new EntryIterator();
}

public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator(final MAP.Entry
KEY_VALUE_GENERIC from) {
 return new EntryIterator(from.ENTRY_GET_KEY());
}

@SuppressWarnings("unchecked")
public boolean contains(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>
e = (Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final Entry KEY_VALUE_GENERIC f = findKey(KEY_CLASS2TYPE(e.getKey()));
 return e.equals(f);
}

@SuppressWarnings("unchecked")
public boolean remove(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry
<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final Entry KEY_VALUE_GENERIC f = findKey(KEY_CLASS2TYPE(e.getKey()));
 if (f != null) AVL_TREE_MAP.this.REMOVE_VALUE(f.key);
 return f != null;
}

public int size() { return count; }
public void clear() { AVL_TREE_MAP.this.clear(); }

public MAP.Entry KEY_VALUE_GENERIC first() { return firstEntry; }
public MAP.Entry KEY_VALUE_GENERIC last() { return lastEntry; }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet(MAP.Entry KEY_VALUE_GENERIC
from, MAP.Entry KEY_VALUE_GENERIC to) { return
subMap(from.ENTRY_GET_KEY(), to.ENTRY_GET_KEY()).ENTRYSET(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet(MAP.Entry KEY_VALUE_GENERIC to
) { return headMap(to.ENTRY_GET_KEY()).ENTRYSET(); }

```

```

 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> tailSet(MAP.Entry KEY_VALUE_GENERIC
from) { return tailMap(from.ENTRY_GET_KEY()).ENTRYSSET(); }
};

return entries;
}

/** An iterator on the whole range of keys.
*
* <P>This class can iterate in both directions on the keys of a threaded tree. We
* simply override the {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and
possibly
* their type-specific counterparts) so that they return keys instead of entries.
*/
private final class KeyIterator extends TreeIterator implements KEY_LIST_ITERATOR KEY_GENERIC {
public KeyIterator() {}
public KeyIterator(final KEY_GENERIC_TYPE k) { super(k); }
public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key;
}
public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }

public void set(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
public void add(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }

#if !#keyclass(Object)
public KEY_GENERIC_CLASS next() { return KEY2OBJ(nextEntry().key); }
public KEY_GENERIC_CLASS previous() { return KEY2OBJ(previousEntry().key); }
public void set(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
public void add(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
#endif
};

/** A keyset implementation using a more direct implementation for iterators. */
private class KeySet extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC.KeySet {
public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new KeyIterator(); }
public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) { return new
KeyIterator(from); }
}

/** Returns a type-specific sorted set
view of the keys contained in this map.
*
* <P>In addition to the semantics of {@link java.util.Map#keySet()}, you can
* safely cast the set returned by this call to a type-specific sorted
* set interface.
*
* @return a type-specific sorted set view of the keys contained in this map.
*/

```

```

public SORTED_SET KEY_GENERIC keySet() {
 if (keys == null) keys = new KeySet();
 return keys;
}

/** An iterator on the whole range of values.
 *
 * <P>This class can iterate in both directions on the values of a threaded tree. We
 * simply override the {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and
 possibly
 * their type-specific counterparts) so that they return values instead of entries.
 */
private final class ValueIterator extends TreeIterator implements VALUE_LIST_ITERATOR VALUE_GENERIC {
 public VALUE_GENERIC_TYPE NEXT_VALUE() { return nextEntry().value; }
 public VALUE_GENERIC_TYPE PREV_VALUE() { return previousEntry().value; }
}
public void set(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }
public void add(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }

#if #values(primitive)
 public VALUE_GENERIC_CLASS next() { return VALUE2OBJ(nextEntry().value); }
 public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ(previousEntry().value); }
 public void set(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
 public void add(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
#endif
};

/** Returns a type-specific collection view of the values contained in this map.
 *
 * <P>In addition to the semantics of {@link java.util.Map#values()}, you can
 * safely cast the collection returned by this call to a type-specific collection
 * interface.
 *
 * @return a type-specific collection view of the values contained in this map.
 */

public VALUE_COLLECTION VALUE_GENERIC values() {
 if (values == null) values
= new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {
 public VALUE_ITERATOR VALUE_GENERIC iterator() {
 return new ValueIterator();
 }

 public boolean contains(final VALUE_TYPE k) {
 return containsValue(k);
 }

 public int size() {

```

```

 return count;
}

public void clear() {
 AVL_TREE_MAP.this.clear();
}

};

return values;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
 return actualComparator;
}

public SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_GENERIC_TYPE to) {
 return new Submap(KEY_NULL, true, to, false);
}

public SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_GENERIC_TYPE from) {
 return new Submap(from, false, KEY_NULL, true);
}

public SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE to) {
 return new Submap(from, false, to, false);
}

/** A submap with given range.
 *
 * <P>This class represents a submap. One has to specify the left/right
 * limits (which
 * can be set to $-\infty$; or ∞ ;. Since the submap is a
 * view on the map, at a given moment it could happen that the limits of
 * the range are not any longer in the main map. Thus, things such as
 * {@link java.util.SortedMap#firstKey()} or {@link java.util.Collection#size()} must be always computed
 * on-the-fly.
 */
private final class Submap extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC implements
java.io.Serializable {
 private static final long serialVersionUID = -7046029254386353129L;

 /** The start of the submap range, unless {@link #bottom} is true. */
 KEY_GENERIC_TYPE from;
 /** The end of the submap range, unless {@link #top} is true. */
 KEY_GENERIC_TYPE to;
 /** If true, the submap range starts from $-\infty$;. */

```



```

boolean bottom;
/** If true, the submap range goes to ∞. */
boolean top;
/** Cached set of entries. */
@SuppressWarnings("hiding")
protected transient volatile ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> entries;
/** Cached
set of keys. */
@SuppressWarnings("hiding")
protected transient volatile SORTED_SET KEY_GENERIC keys;
/** Cached collection of values. */
@SuppressWarnings("hiding")
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

/** Creates a new submap with given key range.
 *
 * @param from the start of the submap range.
 * @param bottom if true, the first parameter is ignored and the range starts from -∞.
 * @param to the end of the submap range.
 * @param top if true, the third parameter is ignored and the range goes to ∞.
 */
public Submap(final KEY_GENERIC_TYPE from, final boolean bottom, final KEY_GENERIC_TYPE to, final
boolean top) {
 if (! bottom && ! top && AVL_TREE_MAP.this.compare(from, to) > 0) throw new IllegalArgumentException(
"Start key (" + from + ") is larger than end key (" + to + ")");

 this.from = from;
 this.bottom = bottom;
 this.to = to;
 this.top = top;
 this.defRetVal = AVL_TREE_MAP.this.defRetVal;
}

public
void clear() {
 final SubmapIterator i = new SubmapIterator();
 while(i.hasNext()) {
 i.nextEntry();
 i.remove();
 }
}

/** Checks whether a key is in the submap range.
 * @param k a key.
 * @return true if is the key is in the submap range.
 */
final boolean in(final KEY_GENERIC_TYPE k) {
 return (bottom || AVL_TREE_MAP.this.compare(k, from) >= 0) &&

```

```

 (top || AVL_TREE_MAP.this.compare(k, to) < 0);
}

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() {
 if (entries == null) entries = new AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>() {
 public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
 return new SubmapEntryIterator();
 }

 public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator(final MAP.Entry
KEY_VALUE_GENERIC from) {
 return new SubmapEntryIterator(from.ENTRY_GET_KEY());
 }

 public Comparator<? super
MAP.Entry KEY_VALUE_GENERIC> comparator() { return AVL_TREE_MAP.this.entrySet().comparator(); }

 @SuppressWarnings("unchecked")
 public boolean contains(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry
<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final AVL_TREE_MAP.Entry KEY_VALUE_GENERIC f = findKey(KEY_CLASS2TYPE(e.getKey()));
 return f != null && in(f.key) && e.equals(f);
 }

 @SuppressWarnings("unchecked")
 public boolean remove(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry
<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final AVL_TREE_MAP.Entry KEY_VALUE_GENERIC f = findKey(KEY_CLASS2TYPE(e.getKey()));
 if (f != null && in(f.key)) Submap.this.REMOVE_VALUE(f.key);
 return f != null;
 }

 public int size() {
 int
c = 0;
 for(Iterator<?> i = iterator(); i.hasNext(); i.next()) c++;
 return c;
 }

 public boolean isEmpty() {
 return ! new SubmapIterator().hasNext();
 }
}

```

```

public void clear() {
 Submap.this.clear();
}

public MAP.Entry KEY_VALUE_GENERIC first() { return firstEntry(); }
public MAP.Entry KEY_VALUE_GENERIC last() { return lastEntry(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet(MAP.Entry KEY_VALUE_GENERIC
from, MAP.Entry KEY_VALUE_GENERIC to) { return subMap(from.ENTRY_GET_KEY(),
to.ENTRY_GET_KEY()).ENTRYSET(); }
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet(MAP.Entry KEY_VALUE_GENERIC to
) { return headMap(to.ENTRY_GET_KEY()).ENTRYSET(); }
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> tailSet(MAP.Entry KEY_VALUE_GENERIC
from) { return tailMap(from.ENTRY_GET_KEY()).ENTRYSET(); }
};

return entries;
}

private class KeySet extends ABSTRACT_SORTED_MAP
KEY_VALUE_GENERIC.KeySet {
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new SubmapKeyIterator(); }
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) { return new
SubmapKeyIterator(from); }
}

public SORTED_SET KEY_GENERIC keySet() {
 if (keys == null) keys = new KeySet();
 return keys;
}

public VALUE_COLLECTION VALUE_GENERIC values() {
 if (values == null) values = new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {
 public VALUE_ITERATOR VALUE_GENERIC iterator() {
 return new SubmapValueIterator();
 }
 }
}

public boolean contains(final VALUE_TYPE k) {
 return containsValue(k);
}

public int size() {
 return Submap.this.size();
}

public void clear() {
 Submap.this.clear();
}

```

```

};

return values;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey(final KEY_TYPE k) {
 return in(KEY_GENERIC_CAST k)
 && AVL_TREE_MAP.this.containsKey(k);
}

public boolean containsValue(final VALUE_TYPE v) {
 final SubmapIterator i = new SubmapIterator();
 VALUE_TYPE ev;

 while(i.hasNext()) {
 ev = i.nextEntry().value;
 if (VALUE_EQUALS(ev, v)) return true;
 }

 return false;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) {
 final AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e;
 final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;
 return in(kk) && (e = findKey(kk)) != null ? e.value : this.defRetVal;
}

#if #keyclass(Object) && #values(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS get(final Object ok) {
 final AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e;
 final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST KEY_OBJ2TYPE(ok);
 return in(kk) && (e
= findKey(kk)) != null ? e.getValue() : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 modified = false;

```

```

 if (! in(k)) throw new IllegalArgumentException("Key (" + k + ") out of range [" + (bottom ? "-" :
String.valueOf(from)) + ", " + (top ? "-" : String.valueOf(to)) + "]");
 final VALUE_GENERIC_TYPE oldValue = AVL_TREE_MAP.this.put(k, v);
 return modified ? this.defRetValue : oldValue;
 }

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov)
{
 final VALUE_GENERIC_TYPE oldValue = put(KEY_CLASS2TYPE(ok), VALUE_CLASS2TYPE(ov));
 return modified ? OBJECT_DEFAULT_RETURN_VALUE : VALUE2OBJ(oldValue);
}
#endif

SUPPRESS_WARNINGS_KEY_UNCHECKED
public
VALUE_GENERIC_TYPE REMOVE_VALUE(final KEY_TYPE k) {
 modified = false;
 if (! in(KEY_GENERIC_CAST k)) return this.defRetValue;
 final VALUE_GENERIC_TYPE oldValue = AVL_TREE_MAP.this.REMOVE_VALUE(k);
 return modified ? oldValue : this.defRetValue;
}

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS remove(final Object ok) {
 final VALUE_GENERIC_TYPE oldValue = REMOVE_VALUE(KEY_OBJ2TYPE(ok));
 return modified ? VALUE2OBJ(oldValue) : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

public int size() {
 final SubmapIterator i = new SubmapIterator();
 int n = 0;

 while(i.hasNext()) {
 n++;
 i.nextEntry();
 }
}

```

```

return n;
}

public boolean isEmpty() {
return ! new SubmapIterator().hasNext();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
return actualComparator;
}

public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_TYPE to) {
if (top) return new Submap(from, bottom, to, false);
return compare(to, this.to) < 0 ? new Submap(from, bottom, to, false) : this;
}

public SORTED_MAP KEY_VALUE_GENERIC tailMap(final KEY_GENERIC_TYPE from) {
if (bottom) return new Submap(from, false, to, top);
return compare(from, this.from) > 0 ? new Submap(from, false, to, top) : this;
}

public SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE to) {
if (top && bottom) return new Submap(from, false, to, false);
if (! top) to = compare(to, this.to) < 0 ? to : this.to;
if (! bottom) from = compare(from, this.from) > 0 ? from : this.from;
if (! top && ! bottom && from == this.from && to == this.to) return this;
return new Submap(from, false, to, false);
}

/** Locates the first entry.
 *
 * @return the first entry of this submap, or <code>null</code>
if the submap is empty.
 */
public AVL_TREE_MAP.Entry KEY_VALUE_GENERIC firstEntry() {
if (tree == null) return null;
// If this submap goes to -infinity, we return the main map first entry; otherwise, we locate the start of the map.
AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e;
if (bottom) e = firstEntry();
else {
e = locateKey(from);
// If we find either the start or something greater we're OK.
if (compare(e.key, from) < 0) e = e.next();
}
// Finally, if this subset doesn't go to infinity, we check that the resulting key isn't greater than the end.

```

```

if (e == null || ! top && compare(e.key, to) >= 0) return null;
return e;
}

/** Locates the last entry.
 *
 * @return the last entry of this submap, or <code>null</code> if the submap is empty.
 */
public AVL_TREE_MAP.Entry KEY_VALUE_GENERIC lastEntry() {
if (tree == null) return null;
// If this submap goes to infinity, we return the main map last entry;
otherwise, we locate the end of the map.
AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e;
if (top) e = lastEntry;
else {
e = locateKey(to);
// If we find something smaller than the end we're OK.
if (compare(e.key, to) >= 0) e = e.prev();
}
// Finally, if this subset doesn't go to -infinity, we check that the resulting key isn't smaller than the start.
if (e == null || ! bottom && compare(e.key, from) < 0) return null;
return e;
}

public KEY_GENERIC_TYPE FIRST_KEY() {
AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e = firstEntry();
if (e == null) throw new NoSuchElementException();
return e.key;
}

public KEY_GENERIC_TYPE LAST_KEY() {
AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e = lastEntry();
if (e == null) throw new NoSuchElementException();
return e.key;
}

#if !#keyclass(Object)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public KEY_GENERIC_CLASS
firstKey() {
AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e = firstEntry();
if (e == null) throw new NoSuchElementException();
return e.getKey();
}

/** { @inheritDoc }

```

```

* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public KEY_GENERIC_CLASS lastKey() {
 AVL_TREE_MAP.Entry KEY_VALUE_GENERIC e = lastEntry();
 if (e == null) throw new NoSuchElementException();
 return e.getKey();
}
#endif

/** An iterator for subranges.
 *
 * <P>This class inherits from {@link TreeIterator}, but overrides the methods that
 * update the pointer after a {@link java.util.ListIterator#next()} or {@link java.util.ListIterator#previous()}. If we
 would
 * move out of the range of the submap we just overwrite the next or previous
 * entry with <code>null</code>.
 */
private class SubmapIterator extends TreeIterator {
 SubmapIterator() {
 next = firstEntry();
 }

 SubmapIterator(final KEY_GENERIC_TYPE k) {
 this();

 if (next != null) {
 if (! bottom && compare(k, next.key) < 0) prev = null;
 else if (! top && compare(k, (prev = lastEntry()).key) >= 0) next = null;
 else {
 next = locateKey(k);

 if (compare(next.key, k) <= 0) {
 prev = next;
 next = next.next();
 }
 else prev = next.prev();
 }
 }
 }

 void updatePrevious() {
 prev = prev.prev();
 if (! bottom && prev != null && AVL_TREE_MAP.this.compare(prev.key, from) < 0) prev = null;
 }

 void updateNext() {

```



```

 next = next.next();
 if (! top && next != null && AVL_TREE_MAP.this.compare(next.key, to) >= 0) next = null;
}
}

private class SubmapEntryIterator extends SubmapIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
 SubmapEntryIterator() {}

 SubmapEntryIterator(final KEY_GENERIC_TYPE k) {
 super(k);
 }

 public MAP.Entry KEY_VALUE_GENERIC next() { return nextEntry(); }
 public
 MAP.Entry KEY_VALUE_GENERIC previous() { return previousEntry(); }

 public void set(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
 public void add(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
}

/** An iterator on a subrange of keys.
 *
 * <P>This class can iterate in both directions on a subrange of the
 * keys of a threaded tree. We simply override the {@link
 * java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and possibly their
 * type-specific counterparts) so that they return keys instead of
 * entries.
 */
private final class SubmapKeyIterator extends SubmapIterator implements KEY_LIST_ITERATOR
KEY_GENERIC {
 public SubmapKeyIterator() { super(); }
 public SubmapKeyIterator(KEY_GENERIC_TYPE from) { super(from); }
 public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key; }
 public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }
}

 public void set(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
 public void add(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
#if !keyclass(Object)
 public KEY_GENERIC_CLASS next() { return KEY2OBJ(nextEntry().key); }
 public KEY_GENERIC_CLASS previous() { return KEY2OBJ(previousEntry().key); }
 public void set(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
 public void add(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
#endif
};

/** An iterator on a subrange of values.

```

```

*
* <P>This class can iterate in both directions on the values of a
* subrange of the keys of a threaded tree. We simply override the
* {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and possibly their
* type-specific counterparts) so that they return values instead of
* entries.
*/
private final class SubmapValueIterator extends
SubmapIterator implements VALUE_LIST_ITERATOR VALUE_GENERIC {
 public VALUE_GENERIC_TYPE NEXT_VALUE() { return nextEntry().value; }
 public VALUE_GENERIC_TYPE PREV_VALUE() { return previousEntry().value; }
 public void set(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }
 public void add(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }

#if #values(primitive)
 public VALUE_GENERIC_CLASS next() { return VALUE2OBJ(nextEntry().value); }
 public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ(previousEntry().value); }
 public void set(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
 public void add(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
#endif
};

}

/** Returns a deep copy of this tree map.
*
* <P>This method performs a deep copy of this tree map; the data stored in the
* set, however, is not cloned. Note that this makes a difference only for object keys.
*
* @return
a deep copy of this tree map.
*/

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public AVL_TREE_MAP KEY_VALUE_GENERIC clone() {
 AVL_TREE_MAP KEY_VALUE_GENERIC c;
 try {
 c = (AVL_TREE_MAP KEY_VALUE_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.keys = null;
 c.values = null;
 c.entries = null;

```

```

c.allocatePaths();

if (count != 0) {
 // Also this apparently unfathomable code is derived from GNU libavl.
 Entry KEY_VALUE_GENERIC e, p, q, rp = new Entry KEY_VALUE_GENERIC(), rq = new Entry
KEY_VALUE_GENERIC();

 p = rp;
 rp.left(tree);

 q = rq;
 rq.pred(null);

 while(true) {
 if (! p.pred()) {
 e = p.left.clone();
 e.pred(q.left);
 e.succ(q);
 q.left(e);

 p = p.left;
 q = q.left;
 }
 else {
 while(p.succ()) {
 p = p.right;

 if (p == null) {
 q.right = null;
 c.tree = rq.left;

 c.firstEntry = c.tree;
 while(
c.firstEntry.left != null) c.firstEntry = c.firstEntry.left;
 c.lastEntry = c.tree;
 while(c.lastEntry.right != null) c.lastEntry = c.lastEntry.right;

 return c;
 }
 q = q.right;
 }

 p = p.right;
 q = q.right;
 }

 if (! p.succ()) {
 e = p.right.clone();

```

```

 e.succ(q.right);
 e.pred(q);
 q.right(e);
 }
 }
}

return c;
}

```

```

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 int n = count;
 EntryIterator i = new EntryIterator();
 Entry KEY_VALUE_GENERIC e;

```

```

 s.defaultWriteObject();

```

```

 while(n-- != 0) {
 e = i.nextEntry();
 s.WRITE_KEY(e.key);
 s.WRITE_VALUE(e.value);
 }
}

```

```

/** Reads the given number of entries from the input stream, returning the corresponding tree.

```

```

 *

```

```

 * @param s the input stream.

```

```

 * @param n the (positive) number of entries to read.

```

```

 * @param pred the entry containing the key that precedes the first key in the tree.

```

```

 * @param succ the entry containing the key that follows the last key in the tree.

```

```

 */

```

```

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED

```

```

private Entry KEY_VALUE_GENERIC readTree(final java.io.ObjectInputStream s, final int n, final Entry
KEY_VALUE_GENERIC pred, final Entry KEY_VALUE_GENERIC succ) throws java.io.IOException,
ClassNotFoundException {

```

```

 if (n == 1) {

```

```

 final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC(KEY_GENERIC_CAST
s.READ_KEY(), VALUE_GENERIC_CAST s.READ_VALUE());

```

```

 top.pred(pred);

```

```

 top.succ(succ);

```

```

 return top;

```

```

 }

```

```

 if (n == 2) {

```

```

/* We handle separately this case so that recursion will
 always be on nonempty subtrees. */
final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC(KEY_GENERIC_CAST
s.READ_KEY(), VALUE_GENERIC_CAST s.READ_VALUE());
top.right(new Entry KEY_VALUE_GENERIC(KEY_GENERIC_CAST s.READ_KEY(),
VALUE_GENERIC_CAST s.READ_VALUE()));
top.right.pred(top);
top.balance(1);
top.pred(pred);
top.right.succ(
succ);

return top;
}

// The right subtree is the largest one.
final int rightN = n / 2, leftN = n - rightN - 1;

final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC();

top.left(readTree(s, leftN, pred, top));

top.key = KEY_GENERIC_CAST s.READ_KEY();
top.value = VALUE_GENERIC_CAST s.READ_VALUE();

top.right(readTree(s, rightN, top, succ));

if (n == (n & -n)) top.balance(1); // Quick test for determining whether n is a power of 2.

return top;
}

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
s.defaultReadObject();
/* The storedComparator is now correctly set, but we must restore
 on-the-fly the actualComparator. */
setActualComparator();
allocatePaths();

if (count != 0) {
tree = readTree(s, count, null, null);
Entry KEY_VALUE_GENERIC e;

e = tree;
while(e.left() != null) e = e.left();
firstEntry = e;
}
}

```

```

 e = tree;
 while(
e.right() != null) e = e.right();
 lastEntry = e;
 }

 if (ASSERTS) checkTree(tree);
 }

#ifdef ASSERTS_CODE
private static KEY_VALUE_GENERIC int checkTree(Entry KEY_VALUE_GENERIC e) {
 if (e == null) return 0;

 final int leftN = checkTree(e.left()), rightN = checkTree(e.right());
 if (leftN + e.balance() != rightN)
 throw new AssertionError("Mismatch between left tree size (" + leftN + "), right tree size (" + rightN + ") and
balance (" + e.balance() + ")");

 return Math.max(leftN , rightN) + 1;
 }
#else
private static KEY_VALUE_GENERIC int checkTree(@SuppressWarnings("unused") Entry
KEY_VALUE_GENERIC e) { return 0; }
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
 #elif #keys(primitive)
 return r.NEXT_KEY();

 #else
 return Integer.toBinaryString(r.nextInt());
 #endif
 }

private static VALUE_TYPE genValue() {
 #if #valueclass(Byte) || #valueclass(Short) || #valueclass(Character)
 return (VALUE_TYPE)(r.nextInt());
 #elif #values(primitive)
 return r.NEXT_VALUE();

```

```

#elif !#valueclass(Reference) || #keyclass(Reference)
 return Integer.toBinaryString(r.nextInt());
#else
 return new java.io.Serializable() {};
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
 int i, j;
 AVL_TREE_MAP m;
 java.util.TreeMap t;
 KEY_TYPE k[] = new KEY_TYPE[n];
 KEY_TYPE nk[] = new KEY_TYPE[n];
 VALUE_TYPE v[] = new VALUE_TYPE[n];
 long ms;

 for(i = 0; i < n; i++) {
 k[i] = genKey();
 nk[i]
= genKey();
 v[i] = genValue();
 }

 double totPut = 0, totYes = 0, totNo = 0, totAddTo = 0, totIterFor = 0, totIterBack = 0, totRemYes = 0, d, dd, ddd;

 if (comp) { for(j = 0; j < 20; j++) {

 t = new java.util.TreeMap();

 /* We first add all pairs to t. */
 for(i = 0; i < n; i++) t.put(KEY2OBJ(k[i]), VALUE2OBJ(v[i]));

 /* Then we remove the first half and put it back. */
 for(i = 0; i < n/2; i++) t.remove(KEY2OBJ(k[i]));

 ms = System.currentTimeMillis();
 for(i = 0; i < n/2; i++) t.put(KEY2OBJ(k[i]), VALUE2OBJ(v[i]));
 d = System.currentTimeMillis() - ms;
 }
}

```

```

/* Then we remove the other half and put it back again. */
ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) t.remove(KEY2OBJ(k[i]));
dd = System.currentTimeMillis() - ms ;

ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) t.put(KEY2OBJ(k[i]), VALUE2OBJ(v[i]));
d += System.currentTimeMillis() - ms;
if (j >
2) totPut += n/d;
System.out.print("Add: " + format(n/d) + " K/s ");

/* Then we remove again the first half. */
ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) t.remove(KEY2OBJ(k[i]));
dd += System.currentTimeMillis() - ms ;
if (j > 2) totRemYes += n/dd;
System.out.print("RemYes: " + format(n/dd) + " K/s ");

/* And then we put it back. */
for(i = 0; i < n/2; i++) t.put(KEY2OBJ(k[i]), VALUE2OBJ(v[i]));

#if #values(primitive) && !#valueclass(Boolean)
/* we perform n/2 addTo() operations with get then put */
ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) t.put(KEY2OBJ(k[i]), (VALUE_TYPE) ((VALUE_CLASS) t.get(KEY2OBJ(k[i])) + i));
ddd = System.currentTimeMillis() - ms;
if (j > 2) totAddTo += n/ddd;
System.out.print("AddTo: " + format(n/ddd) + " K/s ");
#endif

/* We check for pairs in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.containsKey(
KEY2OBJ(k[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + " K/s ");

/* We check for pairs not in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.containsKey(KEY2OBJ(nk[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totNo += d;
System.out.print("No: " + format(d) + " K/s ");

/* We iterate on t. */
ms = System.currentTimeMillis();

```



```

for(Iterator it = t.entrySet().iterator(); it.hasNext(); it.next());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterFor += d;
System.out.print("IterFor: " + format(d) + " K/s ");

System.out.println();
}

System.out.println();
System.out.println("java.util Put: " + format(totPut/(j-3)) + " K/s RemYes: " + format(totRemYes/(j-3)) + " K/s
Yes: " + format(totYes/(j-3)) + " K/s No: " + format(totNo/(j-3)) + "K/s AddTo: " + format(totAddTo/(j-3)
) + " K/s IterFor: " + format(totIterFor/(j-3)) + " K/s");

System.out.println();

t = null;
totPut = totYes = totNo = totIterFor = totIterBack = totRemYes = totAddTo = 0;

}

for(j = 0; j < 20; j++) {

m = new AVL_TREE_MAP();

/* We first add all pairs to m. */
for(i = 0; i < n; i++) m.put(k[i], v[i]);

/* Then we remove the first half and put it back. */
for(i = 0; i < n/2; i++) m.remove(k[i]);

ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) m.put(k[i], v[i]);
d = System.currentTimeMillis() - ms;

/* Then we remove the other half and put it back again. */
ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) m.remove(k[i]);
dd = System.currentTimeMillis() - ms ;

ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) m.put(k[i], v[i]);
d += System.currentTimeMillis() - ms;
if (j > 2) totPut += n/d;
System.out.print("Add: " + format(n/d) + " K/s ");

/*
Then we remove again the first half. */
ms = System.currentTimeMillis();

```

```

for(i = 0; i < n/2; i++) m.remove(k[i]);
dd += System.currentTimeMillis() - ms ;
if (j > 2) totRemYes += n/dd;
System.out.print("RemYes: " + format(n/dd) + " K/s ");

/* And then we put it back. */
for(i = 0; i < n/2; i++) m.put(k[i], v[i]);

#if #values(primitive) && !#valueclass(Boolean)
/* we perform n/2 addTo() operations with get then put */
ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) m.addTo(k[i], (VALUE_TYPE) i);
ddd = System.currentTimeMillis() - ms;
if (j > 2) totAddTo += n/ddd;
System.out.print("AddTo: " + format(n/ddd) + " K/s ");
#endif

/* We check for pairs in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.containsKey(k[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + " K/s ");

/* We check for
pairs not in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.containsKey(nk[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totNo += d;
System.out.print("No: " + format(d) + " K/s ");

/* We iterate on m. */
java.util.ListIterator it = (java.util.ListIterator)m.entrySet().iterator();
ms = System.currentTimeMillis();
for(it = (java.util.ListIterator)m.entrySet().iterator(); it.hasNext(); it.next());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterFor += d;
System.out.print("IterFor: " + format(d) + " K/s ");

/* We iterate back on m. */
ms = System.currentTimeMillis();
for(; it.hasPrevious(); it.previous());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterBack += d;
System.out.print("IterBack: " + format(d) + " K/s ");

```

```

System.out.println();
}

System.out.println();
System.out.println("fastutil Put: " +
format(totPut/(j-3)) + " K/s RemYes: " + format(totRemYes/(j-3)) + " K/s Yes: " + format(totYes/(j-3)) + " K/s
No: " + format(totNo/(j-3)) + "K/s AddTo: " + format(totAddTo/(j-3)) + " K/s IterFor: " + format(totIterFor/(j-3))
+ " K/s");

System.out.println();

}

private static boolean valEquals(Object o1, Object o2) {
return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal(String msg) {
System.out.println(msg);
System.exit(1);
}

private static void ensure(boolean cond, String msg) {
if (cond) return;
fatal(msg);
}

private static void compareMT(SORTED_MAP m, SortedMap t, int level, long seed) {
/* Now we check that m and t are equal. */
if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

/*
Now we check that m actually holds that data. */
for(Iterator i=t.entrySet().iterator(); i.hasNext();) {
java.util.Map.Entry e = (java.util.Map.Entry)i.next();
ensure(valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.entrySet().iterator(); i.hasNext();) {

```

```

Entry e = (Entry)i.next();
ensure(valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on m)");
}

/* Now we check that m actually holds the same keys. */
for(Iterator i=t.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" +o+") after insertion
(iterating on t)");
 ensure(m.keySet().contains(o), "Error (" + level
+ ", " + seed + "): m and t differ on a key (" +o+", in keySet()) after insertion (iterating on t)");
}

/* Now we check that m actually holds the same keys, but iterating on m. */
for(Iterator i=m.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after insertion (iterating on m)"
);
 ensure(t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after insertion
(iterating on m)");
}

/* Now we check that m actually hold the same values. */
for(Iterator i=t.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(m.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
t)");
 ensure(m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on t)");
}

/* Now we check that
m actually hold the same values, but iterating on m. */
for(Iterator i=m.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
m)");
 ensure(t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on m)");
}

}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];

```

```

private static VALUE_TYPE vt[];
private static AVL_TREE_MAP topMap;

protected static void testMaps(SORTED_MAP m, SortedMap t, int n, int level) {
 long ms;
 boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement;
 Object rt = null, rm = null;

 if (level > 4) return;

 /* Now we check that both maps agree on first/last keys. */

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.firstKey();
 }
 catch
 (NoSuchElementException e) { mThrowsNoElement = true; }
 try {
 t.firstKey();
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence at
 start in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 if (! mThrowsNoElement) ensure(t.firstKey().equals(m.firstKey()), "Error (" + level + ", " + seed + "): m and t
 differ at start on their first key (" + m.firstKey() + ", " + t.firstKey() + ")");

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.lastKey();
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 try {
 t.lastKey();
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence at
 start in NoSuchElementException
 (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

 if (! mThrowsNoElement) ensure(t.lastKey().equals(m.lastKey()), "Error (" + level + ", " + seed + "): m and t
 differ at start on their last key (" + m.lastKey() + ", " + t.lastKey() + ")");

```

```

compareMT(m, t, level, seed);

/* Now we check that inquiries about random data give the same answer in m and t. For
 m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.containsKey(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 t.containsKey(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " +
seed + "): containsKey() divergence in NoSuchElementException (" + mThrowsNoElement + ", " +
tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): containsKey() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) {
 ensure(m.containsKey(KEY2OBJ(T)) == t.containsKey(KEY2OBJ(T)), "Error (" + level + ", " + seed + "):
divergence in keys between t and m (polymorphic method)");
 }

#ifdef keyclass(Object) && !(#values(reference))
 if ((m.GET_VALUE(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
 t.get(KEY2OBJ(T)) != null &&
 ! VALUE2OBJ(m.GET_VALUE(T)).equals(t.get(KEY2OBJ(T))))
#else
 if ((m.get(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
 t.get(KEY2OBJ(T)) != null &&
 !
 m.get(KEY2OBJ(T)).equals(t.get(KEY2OBJ(T))))
#endif
 {
 System.out.println("Error (" + level + ", " + seed + "): divergence between t and m (polymorphic method)");
 System.exit(1);
 }
}

```

```

}
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
 for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.get(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 t.get(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): get() divergence in
 NoSuchElementException for " + T + " (" + mThrowsNoElement
 + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): get() divergence in
 IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(valEquals(m.get(KEY2OBJ(T)), t.get(KEY2OBJ(T))),
 "Error (" + level + ", " + seed + "): divergence between t and m (standard method)");
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();
 VALUE_TYPE U = genValue();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 rm = m.put(KEY2OBJ(T), VALUE2OBJ(U));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 rt = t.put(KEY2OBJ(T), VALUE2OBJ(U));
 }
}

```

```

 catch (NoSuchElementException e) { tThrowsNoElement = true;
}
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): put() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): put() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(valEquals(rm, rt), "Error (" + level + ", " + seed + "):
divergence in put() between t and m (" + rt + ", " + rm + ")");

 T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 rm = m.remove(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 rt = t.remove(KEY2OBJ(T));
 }
 catch (NoSuchElementException
e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(valEquals(rm, rt), "Error (" + level + ", " + seed + "):
divergence in remove() between t and m (" + rt + ", " + rm + ")");
}

 compareMT(m, t, level, seed);

 #if #values(primitive) && !#valueclass(Boolean)
 /* Now we check that addTo results in the same values as get/put */
 if (m instanceof AVL_TREE_MAP) {
 for (Iterator i=m.entrySet().iterator(); i.hasNext();) {
 Entry e = (Entry)i.next();
 VALUE_TYPE

```



```

incr = genValue();
((AVL_TREE_MAP) m).addTo(e.key, incr);
t.put(e.key, (VALUE_TYPE) ((VALUE_CLASS) t.get(e.key) + incr));
}
compareMT(m, t, level, seed);

/* Now we make sure that addTo works with a key that did not previously exist (with special default return value)*/
KEY_TYPE newKey;

do {
 newKey = genKey();
} while (m.containsKey(newKey));

VALUE_TYPE newValue, drv;
drv = m.defaultReturnValue();
newValue = genValue();
m.defaultReturnValue(genValue());

((AVL_TREE_MAP) m).addTo(newKey, newValue);
t.put(newKey, (VALUE_TYPE) (newValue + m.defaultReturnValue()));

compareMT(m, t, level, seed);
m.defaultReturnValue(drv); // set the default value back to the old drv
}
#endif

/* Now we check that both maps agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.firstKey();
}
catch (NoSuchElementException e) { mThrowsNoElement = true;
}
try {
 t.firstKey();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
if (! mThrowsNoElement) ensure(t.firstKey().equals(m.firstKey()), "Error (" + level + ", " + seed + "): m and t
differ on their first key (" + m.firstKey() + ", " + t.firstKey() + ")");

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {

```

```

 m.lastKey();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.lastKey();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

if (! mThrowsNoElement) ensure(t.lastKey().equals(
m.lastKey()), "Error (" + level + ", " + seed + "): m and t differ on their last key (" + m.lastKey() + ", " + t.lastKey()
+)"");

/* Now we check cloning. */

if (level == 0) {
 ensure(m.equals(((AVL_TREE_MAP)m).clone()), "Error (" + level + ", " + seed + "): m does not equal m.clone()"
);
 ensure(((AVL_TREE_MAP)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m"
);
}

int h = m.hashCode();

/* Now we save and read m. */

SORTED_MAP m2 = null;

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m2 = (SORTED_MAP)ois.readObject();
 ois.close();
 ff.delete();
}
catch(Exception

```

```

e) {
 e.printStackTrace();
 System.exit(1);
}

#if !#valueclass(Reference)
 ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

 /* Now we check that m2 actually holds that data. */

 ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
 ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
#else
 m2.clear();
 m2.putAll(m);
#endif

 /* Now we take out of m everything, and check that it is empty. */

 for(Iterator i=t.keySet().iterator(); i.hasNext();) m2.remove(i.next());

 ensure(m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)");

 /* Now we play with iterators. */

 {
 java.util.ListIterator i, j;
 Map.Entry E, F;
 Object J;
 i = (java.util.ListIterator)m.entrySet().iterator();
 j = new java.util.LinkedList(t.entrySet()).listIterator();

 for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()");

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure((E=(Entry)i.next()).getKey().equals(J = (F=(Map.Entry)j.next()).getKey()), "Error (" + level + ", " + seed +
 "): divergence in next()");

 if (r.nextFloat() < 0.3) {
 i.remove();
 j.remove();
 t.remove(J);
 }
 else if (r.nextFloat() < 0.3) {
 Object U = VALUE2OBJ(genValue());

```

```

 E.setValue(U);
 t.put(F.getKey(), U);
 }
}
else if (r.nextFloat() < .2 && i.hasPrevious()) {
 ensure((E=(Entry)i.previous()).getKey().equals(J = (F=(Map.Entry)j.previous()).getKey()), "Error (" + level + ", "
+ seed + "): divergence in previous()");

 if (r.nextFloat() < 0.3) {
 i.remove();
 j.remove();
 t.remove(
J);
 }
 else if (r.nextFloat() < 0.3) {
 Object U = VALUE2OBJ(genValue());
 E.setValue(U);
 t.put(F.getKey(), U);
 }
}

ensure(i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()");
ensure(i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()");

}

}

{
 boolean badPrevious = false;
 Object previous = null;
 it.unimi.dsi.fastutil.BidirectionalIterator i;
 java.util.ListIterator j;
 Object I, J;
 KEY_TYPE from = genKey();
 j = new java.util.LinkedList(t.keySet()).listIterator();
 while(j.hasNext()) {
 Object k = j.next();
 if (((Comparable)k).compareTo(KEY2OBJ(from)) > 0) {
 badPrevious = true;
 j.previous();
 break;
 }
 previous = k;
 }

 i = (it.unimi.dsi.fastutil.BidirectionalIterator)((SORTED_SET)m.keySet()).iterator(

```

```

from);

for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")");
 ensure(i.hasPrevious() == j.hasPrevious() || badPrevious && (i.hasPrevious() == (previous != null)), "Error (" +
level + ", " + seed + "): divergence in hasPrevious() (iterator with starting point " + from + ")" + badPrevious);

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure((I = i.next()).equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")");
 //System.err.println("Done next " + I + " " + J + " " + badPrevious);

 badPrevious = false;

 if (r.nextFloat() < 0.5) {
 //System.err.println("Removing in next");
 i.remove();
 j.remove();
 t.remove(J);
 }
 else if (!badPrevious && r.nextFloat() < .2 && i.hasPrevious()) {
 ensure(
 (I = i.previous()).equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence in previous() (" + I + ", "
+ J + ", iterator with starting point " + from + ")");

 if (r.nextFloat() < 0.5) {
 //System.err.println("Removing in prev");
 i.remove();
 j.remove();
 t.remove(J);
 }
 }
 }

}

/* Now we check that m actually holds that data. */

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after iteration");

/* Now we select a pair of keys and create a submap. */

if (! m.isEmpty()) {
 java.util.ListIterator i;
 Object start = m.firstKey(), end = m.firstKey();

```

```

for(i = (java.util.ListIterator)m.keySet().iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next());
for(; i.hasNext() && r.nextFloat() < .95; end = i.next());

//System.err.println("Checking subMap
from " + start + " to " + end + " (level=" + (level+1) + ")...");
testMaps((SORTED_MAP)m.subMap((KEY_CLASS)start, (KEY_CLASS)end), t.subMap(start, end), n, level +
1);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after subMap");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subMap");

//System.err.println("Checking headMap to " + end + " (level=" + (level+1) + ")...");
testMaps((SORTED_MAP)m.headMap((KEY_CLASS)end), t.headMap(end), n, level + 1);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after headMap");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after headMap");

//System.err.println("Checking tailMap from " + start + " (level=" + (level+1) + ")...");
testMaps((SORTED_MAP)m.tailMap((KEY_CLASS)start), t.tailMap(start), n, level + 1);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(
t) after tailMap");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after tailMap");
}

}

private static void test(int n) {
 AVL_TREE_MAP m = new AVL_TREE_MAP();
 SortedMap t = new java.util.TreeMap();
 topMap = m;
 k = new Object[n];
 v = new Object[n];
 nk = new Object[n];
 kt = new KEY_TYPE[n];
 nkt = new KEY_TYPE[n];
 vt = new VALUE_TYPE[n];

 for(int i = 0; i < n; i++) {
 #if #keyclass(Object)
 k[i] = kt[i] = genKey();
 nk[i] = nkt[i] = genKey();
 #else
 k[i] = new KEY_CLASS(kt[i] = genKey());
 nk[i] = new KEY_CLASS(nkt[i] = genKey());
 #endif
 }
}

```

```

#if #values(reference)
 v[i] = vt[i] = genValue();
#else
 v[i] = new VALUE_CLASS(vt[i] = genValue());
#endif
}

/* We add pairs to t. */
for(int i = 0; i < n; i++) t.put(k[i], v[i]);

/* We add to m the same data */
m.putAll(t);

testMaps(m, t, n, 0);

System.out.println("Test OK");
return;
}

public static void main(String args[]
) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}

#endif

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AVLTreeMap.drv

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/\*

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- \*/

```
package PACKAGE;
```

```
#if #keyclass(Object)
import java.util.Comparator;
#endif
```

```
import java.util.Arrays;
```

```
/** A class providing static methods and objects that do useful things with indirect heaps.
 *
 * <P>An indirect heap is an extension of a semi-indirect heap using also an
 * inversion array
 * of the same length as the reference array,
 * satisfying the relation <code>heap[inv[i]]==i</code> when
 * <code>inv[i]>=0</code>, and <code>inv[heap[i]]==i</code> for all elements in the heap.
 */
```

```
public class INDIRECT_HEAPS {
```

```
 private INDIRECT_HEAPS() {}
```

```
/** Moves the given element down into the indirect heap until it reaches the lowest possible position.
 *
 * @param refArray the reference array.
 * @param heap the indirect heap (starting at 0).
 * @param inv the inversion array.
 * @param size the number of elements in the heap.
 * @param i the index in the heap of the element to be moved down.
 * @param c a type-specific comparator, or <code>null</code> for the natural order.
 * @return the new position in the heap of the element of heap index <code>i</code>.
 */
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
public static KEY_GENERIC int downHeap(final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int[]
inv, final int size, int i, final KEY_COMPARATOR KEY_GENERIC
```



```

c) {
 assert i < size;

 final int e = heap[i];
 final KEY_GENERIC_TYPE E = refArray[e];
 int child;

 if (c == null)
 while ((child = (i << 1) + 1) < size) {
 int t = heap[child];
 final int right = child + 1;
 if (right < size && KEY_LESS(refArray[heap[right]], refArray[t])) t = heap[child = right];
 if (KEY_LESSEQ(E, refArray[t])) break;
 heap[i] = t;
 inv[heap[i]] = i;
 i = child;
 }
 else
 while ((child = (i << 1) + 1) < size) {
 int t = heap[child];
 final int right = child + 1;
 if (right < size && c.compare(refArray[heap[right]], refArray[t]) < 0) t = heap[child = right];
 if (c.compare(E, refArray[t]) <= 0) break;
 heap[i] = t;
 inv[heap[i]] = i;
 i = child;
 }

 heap[i] = e;
 inv[e] = i;
 return i;
}

```

/\*\* Moves the given element up in the indirect heap until it reaches the highest possible position.

\*

\* Note that in principle after this  
call the heap property may be violated.

\*

\* @param refArray the reference array.

\* @param heap the indirect heap (starting at 0).

\* @param inv the inversion array.

\* @param size the number of elements in the heap.

\* @param i the index in the heap of the element to be moved up.

\* @param c a type-specific comparator, or `null` for the natural order.

\* @return the new position in the heap of the element of heap index `i`.

\*/

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

public static KEY_GENERIC int upHeap(final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int[] inv,
final int size, int i, final KEY_COMPARATOR KEY_GENERIC c) {
 assert i < size;

 final int e = heap[i];
 final KEY_GENERIC_TYPE E = refArray[e];

 if (c == null)
 while (i != 0) {
 final int parent = (i - 1) >>> 1;
 final int t = heap[parent];
 if (KEY_LESSEQ(refArray[t], E)) break;
 heap[i] = t;
 inv[heap[i]] = i;
 i = parent;
 }
 else
 while
 (i != 0) {
 final int parent = (i - 1) >>> 1;
 final int t = heap[parent];
 if (c.compare(refArray[t], E) <= 0) break;
 heap[i] = t;
 inv[heap[i]] = i;
 i = parent;
 }

 heap[i] = e;
 inv[e] = i;

 return i;
}

/** Creates an indirect heap in the given array.
 *
 * @param refArray the reference array.
 * @param offset the first element of the reference array to be put in the heap.
 * @param length the number of elements to be put in the heap.
 * @param heap the array where the heap is to be created.
 * @param inv the inversion array.
 * @param c a type-specific comparator, or <code>null</code> for the natural order.
 */

public static KEY_GENERIC void makeHeap(final KEY_GENERIC_TYPE[] refArray, final int offset, final int
length, final int[] heap, final int[] inv, final KEY_COMPARATOR KEY_GENERIC c) {
 ARRAYS.ensureOffsetLength(refArray, offset, length);
 if (heap.length < length) throw new IllegalArgumentException(

```

```
"The heap length (" + heap.length + ") is smaller than the number of elements (" + length + ")";
if (inv.length < refArray.length) throw new IllegalArgumentException("The inversion array length (" +
heap.length + ") is smaller than the length of the reference array (" + refArray.length + ")");
```

```
Arrays.fill(inv, 0, refArray.length, -1);
```

```
int i = length;
while(i-- != 0) inv[heap[i] = offset + i] = i;
```

```
i = length >>> 1;
while(i-- != 0) downHeap(refArray, heap, inv, length, i, c);
}
```

```
/** Creates an indirect heap from a given index array.
```

```
*
```

```
* @param refArray the reference array.
```

```
* @param heap an array containing indices into <code>refArray</code>.
```

```
* @param inv the inversion array.
```

```
* @param size the number of elements in the heap.
```

```
* @param c a type-specific comparator, or <code>null</code> for the natural order.
```

```
*/
```

```
public static KEY_GENERIC void makeHeap(final KEY_GENERIC_TYPE[] refArray, final int[] heap, final int[]
inv, final int size,
final KEY_COMPARATOR KEY_GENERIC c) {
 int i = size >>> 1;
 while(i-- != 0) downHeap(refArray, heap, inv, size, i, c);
}
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/IndirectHeaps.drv
```

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```
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```

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```

```
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;
```

```
import it.unimi.dsi.fastutil.objects.ObjectSortedSets;
```

```
import java.util.Comparator;
```

```
import java.util.Map;
```

```
import java.util.SortedMap;
```

```
import java.util.NoSuchElementException;
```

```
/** A class providing static methods and objects that do useful things
```

```
with type-specific sorted maps.
```

```
*
```

```
* @see java.util.Collections
```

```
*/
```

```
public class SORTED_MAPS {
```

```
private SORTED_MAPS() {}
```

```
/** Returns a comparator for entries based on a given comparator on keys.
```

```
*
```

```
* @param comparator a comparator on keys.
```

```
* @return the associated comparator on entries.
```

```
*/
```

```
public static KEY_GENERIC Comparator<? super Map.Entry<KEY_GENERIC_CLASS, ?>> entryComparator(
final KEY_COMPARATOR KEY_GENERIC comparator) {
```

```
return new Comparator<Map.Entry<KEY_GENERIC_CLASS, ?>>() {
```

```
public int compare(Map.Entry<KEY_GENERIC_CLASS, ?> x, Map.Entry<KEY_GENERIC_CLASS, ?> y) {
```

```
return comparator.compare(x.getKey(), y.getKey());
```

```
}
```

```
};
```

```
}
```

```
/** An immutable class representing an empty type-specific sorted map.
```

```
*
```

```
* <P>This class may be useful to implement your own in case you subclass
```

```
* a type-specific sorted map.
```

```
*/
```

```
public static class EmptySortedMap KEY_VALUE_GENERIC extends MAPS.EmptyMap
```

```
KEY_VALUE_GENERIC implements SORTED_MAP KEY_VALUE_GENERIC,
```

```

java.io.Serializable, Cloneable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected EmptySortedMap() {}

 public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

 @SuppressWarnings("unchecked")
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { return
ObjectSortedSets.EMPTY_SET; }
 @SuppressWarnings("unchecked")
 public ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
ObjectSortedSets.EMPTY_SET; }

 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public SORTED_SET KEY_GENERIC keySet() { return SORTED_SETS.EMPTY_SET; }

 SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
 public SORTED_MAP KEY_VALUE_GENERIC subMap(final KEY_GENERIC_TYPE from, final
KEY_GENERIC_TYPE to) { return EMPTY_MAP; }

 SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
 public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_TYPE to) { return
EMPTY_MAP; }

 SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
 public SORTED_MAP KEY_VALUE_GENERIC
tailMap(final KEY_GENERIC_TYPE from) { return EMPTY_MAP; }

 public KEY_GENERIC_TYPE FIRST_KEY() { throw new NoSuchElementException(); }
 public KEY_GENERIC_TYPE LAST_KEY() { throw new NoSuchElementException(); }

 #if #keys(primitive)
 /** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_GENERIC_CLASS oto) { return headMap(
KEY_CLASS2TYPE(oto)); }
 /** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_GENERIC_CLASS ofrom) { return tailMap(
KEY_CLASS2TYPE(ofrom)); }
 /** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_CLASS ofrom,

```

```

KEY_GENERIC_CLASS oto) { return subMap(KEY_CLASS2TYPE(ofrom), KEY_CLASS2TYPE(oto)); }

/**
{ @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS firstKey() { return KEY2OBJ(FIRST_KEY()); }
/** { @inheritDoc }
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS lastKey() { return KEY2OBJ(LAST_KEY()); }
#endif
}

```

```

/** An empty type-specific sorted map (immutable). It is serializable and cloneable. */

```

```

SUPPRESS_WARNINGS_KEY_VALUE_RAWTYPES

```

```

public static final EmptySortedMap EMPTY_MAP = new EmptySortedMap();

```

```

/** An immutable class representing a type-specific singleton sorted map.

```

```

*

```

```

* <P>This class may be useful to implement your own in case you subclass

```

```

* a type-specific sorted map.

```

```

*/

```

```

public static class Singleton KEY_VALUE_GENERIC extends MAPS.Singleton KEY_VALUE_GENERIC
implements SORTED_MAP KEY_VALUE_GENERIC, java.io.Serializable, Cloneable {

```

```

private static final long serialVersionUID = -7046029254386353129L;

```

```

protected

```

```

final KEY_COMPARATOR KEY_SUPER_GENERIC comparator;

```

```

protected Singleton(final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value,
KEY_COMPARATOR KEY_SUPER_GENERIC comparator) {
super(key, value);
this.comparator = comparator;
}

```

```

protected Singleton(final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value) {
this(key, value, null);
}

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

final int compare(final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2) {
 return comparator == null ? KEY_CMP(k1, k2) : comparator.compare(k1, k2);
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return comparator; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if (entries == null) entries =
ObjectSortedSets.singleton((MAP.Entry KEY_VALUE_GENERIC)new SingletonEntry(), (Comparator<? super
MAP.Entry KEY_VALUE_GENERIC>)entryComparator(comparator)); return (ObjectSortedSet<MAP.Entry
KEY_VALUE_GENERIC>)entries;
}
@SuppressWarnings({ "rawtypes", "unchecked" })
public ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSortedSet)ENTRYSET(); }

public SORTED_SET KEY_GENERIC keySet() { if (keys == null) keys = SORTED_SETS.singleton(key,
comparator); return (SORTED_SET KEY_GENERIC)keys; }

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public SORTED_MAP KEY_VALUE_GENERIC subMap(final KEY_GENERIC_TYPE from, final
KEY_GENERIC_TYPE to) { if (compare(from, key) <= 0 && compare(key, to) < 0) return this; return
EMPTY_MAP; }

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_TYPE to) { if (compare(key,
to) < 0) return this; return EMPTY_MAP; }

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public SORTED_MAP KEY_VALUE_GENERIC tailMap(final KEY_GENERIC_TYPE from) { if (compare(
from, key) <= 0) return this; return EMPTY_MAP; }

public KEY_GENERIC_TYPE FIRST_KEY() {
return key; }
public KEY_GENERIC_TYPE LAST_KEY() { return key; }

#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_GENERIC_CLASS oto) { return headMap(
KEY_CLASS2TYPE(oto)); }
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_GENERIC_CLASS ofrom) { return tailMap(
KEY_CLASS2TYPE(ofrom)); }
/** {@inheritDoc}

```

```

 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_CLASS ofrom,
 KEY_GENERIC_CLASS oto) { return subMap(KEY_CLASS2TYPE(ofrom), KEY_CLASS2TYPE(oto)); }

 /** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public KEY_GENERIC_CLASS firstKey() { return KEY2OBJ(FIRST_KEY()
); }
 /** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public KEY_GENERIC_CLASS lastKey() { return KEY2OBJ(LAST_KEY()); }
 #endif
 }

 /** Returns a type-specific immutable sorted map containing only the specified pair. The returned sorted map is
 serializable and cloneable.
 *
 * <P>Note that albeit the returned map is immutable, its default return value may be changed.
 *
 * @param key the only key of the returned sorted map.
 * @param value the only value of the returned sorted map.
 * @return a type-specific immutable sorted map containing just the pair <code><key,value></code>.
 */

 public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC singleton(final
 KEY_GENERIC_CLASS key, VALUE_GENERIC_CLASS value) {
 return new Singleton KEY_VALUE_GENERIC(KEY_CLASS2TYPE(key), VALUE_CLASS2TYPE(value));
 }

 /** RETURNS a type-specific immutable sorted map containing only the specified pair.
 The returned sorted map is serializable and cloneable.
 *
 * <P>Note that albeit the returned map is immutable, its default return value may be changed.
 *
 * @param key the only key of the returned sorted map.
 * @param value the only value of the returned sorted map.
 * @param comparator the comparator to use in the returned sorted map.
 * @return a type-specific immutable sorted map containing just the pair <code><key,value></code>.
 */

 public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC singleton(final
 KEY_GENERIC_CLASS key, VALUE_GENERIC_CLASS value, KEY_COMPARATOR
 KEY_SUPER_GENERIC comparator) {
 return new Singleton KEY_VALUE_GENERIC(KEY_CLASS2TYPE(key), VALUE_CLASS2TYPE(value),
 comparator);
 }

```



```

}

#if #keys(primitive) || #values(primitive)

/** Returns a type-specific immutable sorted map containing only the specified pair. The returned sorted map is
serializable and cloneable.
*
* <P>Note that albeit the returned map is immutable, its default
return value may be changed.
*
* @param key the only key of the returned sorted map.
* @param value the only value of the returned sorted map.
* @return a type-specific immutable sorted map containing just the pair <code><key,value></code>.
*/

public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC singleton(final
KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value) {
return new Singleton KEY_VALUE_GENERIC(key, value);
}

/** Returns a type-specific immutable sorted map containing only the specified pair. The returned sorted map is
serializable and cloneable.
*
* <P>Note that albeit the returned map is immutable, its default return value may be changed.
*
* @param key the only key of the returned sorted map.
* @param value the only value of the returned sorted map.
* @param comparator the comparator to use in the returned sorted map.
* @return a type-specific immutable sorted map containing just the pair <code><key,value></code>.
*/

public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC singleton(final
KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value, KEY_COMPARATOR
KEY_SUPER_GENERIC comparator) {
return new Singleton KEY_VALUE_GENERIC(key, value, comparator);
}

#endif

/** A synchronized wrapper class for sorted maps. */

public static class SynchronizedSortedMap KEY_VALUE_GENERIC extends MAPS.SynchronizedMap
KEY_VALUE_GENERIC implements SORTED_MAP KEY_VALUE_GENERIC, java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

```

```

protected final SORTED_MAP KEY_VALUE_GENERIC sortedMap;

protected SynchronizedSortedMap(final SORTED_MAP KEY_VALUE_GENERIC m, final Object sync) {
 super(m, sync);
 sortedMap = m;
}

protected SynchronizedSortedMap(final SORTED_MAP KEY_VALUE_GENERIC m) {
 super(m);
 sortedMap = m;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { synchronized(sync) { return
sortedMap.comparator(); } }

public
ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if (entries == null) entries =
ObjectSortedSets.synchronize(sortedMap.ENTRYSET(), sync); return (ObjectSortedSet<MAP.Entry
KEY_VALUE_GENERIC>)entries; }
@SuppressWarnings({ "rawtypes", "unchecked" })
public ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSortedSet)ENTRYSET(); }
public SORTED_SET KEY_GENERIC keySet() { if (keys == null) keys = SORTED_SETS.synchronize(
sortedMap.keySet(), sync); return (SORTED_SET KEY_GENERIC)keys; }

public SORTED_MAP KEY_VALUE_GENERIC subMap(final KEY_GENERIC_TYPE from, final
KEY_GENERIC_TYPE to) { return new SynchronizedSortedMap KEY_VALUE_GENERIC(sortedMap.subMap(
from, to), sync); }
public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_TYPE to) { return new
SynchronizedSortedMap KEY_VALUE_GENERIC(sortedMap.headMap(to), sync); }
public SORTED_MAP KEY_VALUE_GENERIC tailMap(final KEY_GENERIC_TYPE from) { return
new SynchronizedSortedMap KEY_VALUE_GENERIC(sortedMap.tailMap(from), sync); }

public KEY_GENERIC_TYPE FIRST_KEY() { synchronized(sync) { return sortedMap.FIRST_KEY(); } }
public KEY_GENERIC_TYPE LAST_KEY() { synchronized(sync) { return sortedMap.LAST_KEY(); } }

#if #keys(primitive)
public KEY_GENERIC_CLASS firstKey() { synchronized(sync) { return sortedMap.firstKey(); } }
public KEY_GENERIC_CLASS lastKey() { synchronized(sync) { return sortedMap.lastKey(); } }

public SORTED_MAP KEY_VALUE_GENERIC subMap(final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to) { return new SynchronizedSortedMap KEY_VALUE_GENERIC(
sortedMap.subMap(from, to), sync); }
public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_CLASS to) { return new
SynchronizedSortedMap KEY_VALUE_GENERIC(sortedMap.headMap(to), sync); }
public SORTED_MAP KEY_VALUE_GENERIC tailMap(final KEY_GENERIC_CLASS from) { return new
SynchronizedSortedMap KEY_VALUE_GENERIC(sortedMap.tailMap(

```

```

from), sync); }
#endif

}

/** Returns a synchronized type-specific sorted map backed by the given type-specific sorted map.
 *
 * @param m the sorted map to be wrapped in a synchronized sorted map.
 * @return a synchronized view of the specified sorted map.
 * @see java.util.Collections#synchronizedSortedMap(SortedMap)
 */
public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC synchronize(final
SORTED_MAP KEY_VALUE_GENERIC m) { return new SynchronizedSortedMap KEY_VALUE_GENERIC(
m); }

/** Returns a synchronized type-specific sorted map backed by the given type-specific sorted map, using an
assigned object to synchronize.
 *
 * @param m the sorted map to be wrapped in a synchronized sorted map.
 * @param sync an object that will be used to synchronize the access to the sorted sorted map.
 * @return a synchronized view of the specified sorted map.
 * @see java.util.Collections#synchronizedSortedMap(SortedMap)
 */

public static KEY_VALUE_GENERIC SORTED_MAP
KEY_VALUE_GENERIC synchronize(final SORTED_MAP KEY_VALUE_GENERIC m, final Object sync) {
return new SynchronizedSortedMap KEY_VALUE_GENERIC(m, sync); }

/** An unmodifiable wrapper class for sorted maps. */

public static class UnmodifiableSortedMap KEY_VALUE_GENERIC extends MAPS.UnmodifiableMap
KEY_VALUE_GENERIC implements SORTED_MAP KEY_VALUE_GENERIC, java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final SORTED_MAP KEY_VALUE_GENERIC sortedMap;

protected UnmodifiableSortedMap(final SORTED_MAP KEY_VALUE_GENERIC m) {
super(m);
sortedMap = m;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return sortedMap.comparator(); }

```

```

 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() { if (entries == null) entries =
ObjectSortedSets.unmodifiable(sortedMap.ENTRYSET()); return (ObjectSortedSet<MAP.Entry
KEY_VALUE_GENERIC>)entries; }
 @SuppressWarnings({ "rawtypes", "unchecked" })
 public
ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() { return
(ObjectSortedSet)ENTRYSET(); }
 public SORTED_SET KEY_GENERIC keySet() { if (keys == null) keys = SORTED_SETS.unmodifiable(
sortedMap.keySet()); return (SORTED_SET KEY_GENERIC)keys; }

 public SORTED_MAP KEY_VALUE_GENERIC subMap(final KEY_GENERIC_TYPE from, final
KEY_GENERIC_TYPE to) { return new UnmodifiableSortedMap KEY_VALUE_GENERIC(sortedMap.subMap(
from, to)); }
 public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_TYPE to) { return new
UnmodifiableSortedMap KEY_VALUE_GENERIC(sortedMap.headMap(to)); }
 public SORTED_MAP KEY_VALUE_GENERIC tailMap(final KEY_GENERIC_TYPE from) { return new
UnmodifiableSortedMap KEY_VALUE_GENERIC(sortedMap.tailMap(from)); }

 public KEY_GENERIC_TYPE FIRST_KEY() { return sortedMap.FIRST_KEY(); }
 public KEY_GENERIC_TYPE LAST_KEY() { return sortedMap.LAST_KEY(); }

#if #keys(primitive)
 public KEY_GENERIC_CLASS firstKey()
 { return sortedMap.firstKey(); }
 public KEY_GENERIC_CLASS lastKey() { return sortedMap.lastKey(); }

 public SORTED_MAP KEY_VALUE_GENERIC subMap(final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to) { return new UnmodifiableSortedMap KEY_VALUE_GENERIC(
sortedMap.subMap(from, to)); }
 public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_CLASS to) { return new
UnmodifiableSortedMap KEY_VALUE_GENERIC(sortedMap.headMap(to)); }
 public SORTED_MAP KEY_VALUE_GENERIC tailMap(final KEY_GENERIC_CLASS from) { return new
UnmodifiableSortedMap KEY_VALUE_GENERIC(sortedMap.tailMap(from)); }
#endif

}

/** Returns an unmodifiable type-specific sorted map backed by the given type-specific sorted map.
 *
 * @param m the sorted map to be wrapped in an unmodifiable sorted map.
 * @return an unmodifiable view of the specified sorted map.
 * @see java.util.Collections#unmodifiableSortedMap(SortedMap)
 */
public static KEY_VALUE_GENERIC SORTED_MAP KEY_VALUE_GENERIC
unmodifiable(final SORTED_MAP KEY_VALUE_GENERIC m) { return new UnmodifiableSortedMap
KEY_VALUE_GENERIC(m); }

```

```

#if defined(TEST) && ! #keyclass(Reference)

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#else
return Integer.toBinaryString(r.nextInt());
#endif
}

private static VALUE_TYPE genValue() {
#if #valueclass(Byte) || #valueclass(Short) || #valueclass(Character)
return (VALUE_TYPE)(r.nextInt());
#elif #values(primitive)
return r.NEXT_VALUE();
#elif !#valueclass(Reference) || #keyclass(Reference)
return Integer.toBinaryString(r.nextInt());
#else
return new java.io.Serializable() {};
#endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static
java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
StringBuffer s = new StringBuffer();
return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
System.out.println("There are presently no speed tests for this class.");
}

private static boolean valEquals(Object o1, Object o2) {
return o1 == null ? o2 == null : o1.equals(o2);
}

```

```

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static VALUE_TYPE vt[];
private static SORTED_MAP topMap;

protected static void testMaps(SORTED_MAP m, SortedMap t, int n, int level) {
 long ms;
 boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement, mThrowsUnsupp,
 tThrowsUnsupp;
 Object
 rt = null, rm = null;

 if (level > 1) return;

 /* Now we check that both maps agree on first/last keys. */

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.firstKey();
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 try {
 t.firstKey();
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence at
 start in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 if (! mThrowsNoElement) ensure(t.firstKey().equals(m.firstKey()), "Error (" + level + ", " + seed + "): m and t
 differ at start on their first key (" + m.firstKey() + ", " + t.firstKey() + ")");

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.lastKey();

```

```

 }
 catch (java.util.NoSuchElementException
e) { mThrowsNoElement = true; }
 try {
 t.lastKey();
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence at
start in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

 if (! mThrowsNoElement) ensure(t.lastKey().equals(m.lastKey()), "Error (" + level + ", " + seed + "): m and t
differ at start on their last key (" + m.lastKey() + ", " + t.lastKey() + ")");

 /* Now we check that m and t are equal. */
 if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

 /* Now we check that m actually holds that data. */
 for(java.util.Iterator i=t.entrySet().iterator(); i.hasNext();
) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 ensure(valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on t)");
 }

 /* Now we check that m actually holds that data, but iterating on m. */
 for(java.util.Iterator i=m.entrySet().iterator(); i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 ensure(valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on m)");
 }

 /* Now we check that m actually holds the same keys. */
 for(java.util.Iterator i=t.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" +o+") after insertion
(iterating on t)");
 ensure(m.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" +o+", in
keySet()) after insertion (iterating on t)");
 }

```

```

/* Now we check that m actually holds the same keys, but iterating on m. */
for(java.util.Iterator i=m.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after insertion (iterating on m)"
);
 ensure(t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after insertion
(iterating on m)");
}

```

```

/* Now we check that m actually hold the same values. */
for(java.util.Iterator i=t.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(m.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
t)");
 ensure(m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on t)");
}

```

```

/* Now we check that m actually hold the same values,
but iterating on m. */
for(java.util.Iterator i=m.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
m)");
 ensure(t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on m)");
}

```

```

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

```

```

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

```

```

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

```

```

 try {
 m.containsKey(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

```

```

 try {
 t.containsKey(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException

```



```

e) { tThrowsIllegal = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): containsKey() divergence
in java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): containsKey() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
if (!mThrowsNoElement && !mThrowsIllegal) {
 ensure(m.containsKey(KEY2OBJ(T)) == t.containsKey(KEY2OBJ(T)), "Error (" + level + ", " + seed + "):
divergence in keys between t and m (polymorphic method)");

#if #keyclass(Object) && ! (#values(reference))
 if ((m.GET_VALUE(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
 t.get(KEY2OBJ(T)) != null &&
 ! VALUE2OBJ(m.GET_VALUE(T)).equals(t.get(KEY2OBJ(T))))
#else
 if ((m.get(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T))
== null ? VALUE_NULL : VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
 t.get(KEY2OBJ(T)) != null &&
 ! m.get(KEY2OBJ(T)).equals(t.get(KEY2OBJ(T))))
#endif
 {
 System.out.println("Error (" + level + ", " + seed + "): divergence between t and m (polymorphic method)");
 System.exit(1);
 }
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.get(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 t.get(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
}

```

```

 ensure(
 mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): get() divergence in
 java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): get() divergence in
 IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(valEquals(m.get(KEY2OBJ(T)), t.get(KEY2OBJ(T))),
 "Error (" + level + ", " + seed + "): divergence between t and m (standard method)");
 }

 /* Now we put and remove random data in m and t, checking that the result is the same. */

 for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();
 VALUE_TYPE U = genValue();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = mThrowsUnsupp =
 tThrowsUnsupp = false;

 try {
 rm = m.put(KEY2OBJ(T), VALUE2OBJ(U));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement
 = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 rt = t.put(KEY2OBJ(T), VALUE2OBJ(U));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): put() divergence in
 java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): put() divergence in
 IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): put() divergence in
 UnsupportedOperationException for " + T + " (" + mThrowsUnsupp
 + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsUnsupp) ensure(valEquals(rm, rt), "Error (" + level
 + ", " + seed + "): divergence in put() between t and m (" + rt + ", " + rm + ")");

 T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = mThrowsUnsupp =
 tThrowsUnsupp = false;

```

```

try {
 rm = m.remove(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 rt = t.remove(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence
in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ")" + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsUnsupp) ensure(valEquals(rm, rt), "Error (" + level
+ ", " + seed + "): divergence in remove() between t and m (" + rt + ", " + rm + ")");
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal");

/* Now we check that m actually holds the same data. */

for(java.util.Iterator i=t.entrySet().iterator();
i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 ensure(valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after removal (iterating on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.entrySet().iterator(); i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 ensure(valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after removal (iterating on m)");
}

/* Now we check that m actually holds the same keys. */

for(java.util.Iterator i=t.keySet().iterator(); i.hasNext();) {

```

```

 Object o = i.next();
 ensure(m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ") after removal
(iterating on t)");
 ensure(m.keySet().contains(o), "Error (" + level + ", " + seed +
"): m and t differ on a key (" + o + ", in keySet()) after removal (iterating on t)");
}

/* Now we check that m actually holds the same keys, but iterating on m. */

for(java.util.Iterator i=m.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after removal (iterating on m)");
 ensure(t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after removal
(iterating on m)");
}

/* Now we check that m actually hold the same values. */

for(java.util.Iterator i=t.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(m.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after removal (iterating on
t)");
 ensure(m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
removal (iterating on t)");
}

/* Now we check that
m actually hold the same values, but iterating on m. */

for(java.util.Iterator i=m.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after removal (iterating on
m)");
 ensure(t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
removal (iterating on m)");
}

/* Now we check that both maps agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.firstKey();
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }

try {
 t.firstKey();
}

```

```

 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence in
java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 if
 (! mThrowsNoElement) ensure(t.firstKey().equals(m.firstKey()), "Error (" + level + ", " + seed + "): m and t
differ on their first key (" + m.firstKey() + ", " + t.firstKey() + ")");

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.lastKey();
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 try {
 t.lastKey();
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence in
java.util.NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

 if (! mThrowsNoElement) ensure(t.lastKey().equals(m.lastKey()), "Error (" + level + ", " + seed + "): m and t
differ on their last key (" + m.lastKey() + ", " + t.lastKey() + ")");

 /* Now we check cloning. */

 if (level == 0) {
 ensure(m.equals(((Singleton)m).clone()), "Error (" + level
+ ", " + seed + "): m does not equal m.clone()");
 ensure(((Singleton)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m");
 m = (SORTED_MAP)((Singleton)m).clone();
 }

 int h = m.hashCode();

 /* Now we save and read m. */

 SORTED_MAP m2 = null;

 try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);

```

```

oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (SORTED_MAP)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit(1);
}

#if !#valueclass(Reference)
ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

/* Now we
check that m2 actually holds that data. */

ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
/* Now we take out of m everything, and check that it is empty. */
#endif

/* Now we play with iterators. */

{
java.util.ListIterator i, j;
Object J;
i = (java.util.ListIterator)m.entrySet().iterator();
j = new java.util.LinkedList(t.entrySet()).listIterator();

for(int k = 0; k < 2*n; k++) {
ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()");
ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()");

if (r.nextFloat() < .8 && i.hasNext()) {
ensure(((java.util.Map.Entry)i.next()).getKey().equals(J = ((Map.Entry)j.next()).getKey()), "Error (" + level + ", "
+ seed + "): divergence in next()"
);
}

else if (r.nextFloat() < .2 && i.hasPrevious()) {
ensure(((java.util.Map.Entry)i.previous()).getKey().equals(J = ((Map.Entry)j.previous()).getKey()), "Error (" +
level + ", " + seed + "): divergence in previous()");
}
}
}

```

```

ensure(i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()");
ensure(i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()");

}
}

{
boolean badPrevious = false;
Object previous = null;
it.unimi.dsi.fastutil.BidirectionalIterator i;
java.util.ListIterator j;
Object I, J;
KEY_TYPE from = genKey();
j = new java.util.LinkedList(t.keySet()).listIterator();
while(j.hasNext()) {
Object k = j.next();
if (((Comparable)k).compareTo(KEY2OBJ(from)) > 0) {
badPrevious = true;
j.previous();
break;
}
previous = k;
}

i = (it.unimi.dsi.fastutil.BidirectionalIterator)((SORTED_SET)m.keySet()).iterator(
from);

for(int k = 0; k < 2*n; k++) {
ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")");
ensure(i.hasPrevious() == j.hasPrevious() || badPrevious && (i.hasPrevious() == (previous != null)), "Error (" +
level + ", " + seed + "): divergence in hasPrevious() (iterator with starting point " + from + ")" + badPrevious);

if (r.nextFloat() < .8 && i.hasNext()) {
ensure((I = i.next()).equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")");
//System.err.println("Done next " + I + " " + J + " " + badPrevious);

badPrevious = false;

if (r.nextFloat() < 0.5) {
}
}
else if (!badPrevious && r.nextFloat() < .2 && i.hasPrevious()) {
ensure((I = i.previous()).equals(J = j.previous()), "Error (" +
level + ", " + seed + "): divergence in previous() (" + I + ", " + J + ", iterator with starting point " + from + ")");
}
}
}

```

```

 if (r.nextFloat() < 0.5) {
 }
}

}

}

/* Now we check that m actually holds that data. */

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after iteration");

/* Now we select a pair of keys and create a submap. */

if (! m.isEmpty()) {
 java.util.ListIterator i;
 Object start = m.firstKey(), end = m.firstKey();
 for(i = (java.util.ListIterator)m.keySet().iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next());
 for(; i.hasNext() && r.nextFloat() < .95; end = i.next());

 //System.err.println("Checking subMap from " + start + " to " + end + " (level=" + (level+1) + ")...");
 testMaps((SORTED_MAP)m.subMap((KEY_CLASS)start, (KEY_CLASS)end), t.subMap(start, end), n, level
+ 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after subMap");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subMap");

 //System.err.println("Checking headMap to " + end + " (level=" + (level+1) + ")...");
 testMaps((SORTED_MAP)m.headMap((KEY_CLASS)end), t.headMap(end), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after headMap");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after headMap");

 //System.err.println("Checking tailMap from " + start + " (level=" + (level+1) + ")...");
 testMaps((SORTED_MAP)m.tailMap((KEY_CLASS)start), t.tailMap(start), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after tailMap");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after tailMap");
}

}

private static void test() {
 int
n = 1;
k = new Object[n];

```



```

v = new Object[n];
nk = new Object[n];
kt = new KEY_TYPE[n];
nkt = new KEY_TYPE[n];
vt = new VALUE_TYPE[n];

for(int i = 0; i < n; i++) {
#if #keyclass(Object)
 k[i] = kt[i] = genKey();
 nk[i] = nkt[i] = genKey();
#else
 k[i] = new KEY_CLASS(kt[i] = genKey());
 nk[i] = new KEY_CLASS(nkt[i] = genKey());
#endif
#if #values(reference)
 v[i] = vt[i] = genValue();
#else
 v[i] = new VALUE_CLASS(vt[i] = genValue());
#endif
}

SORTED_MAP m = new Singleton(kt[0], vt[0]);
topMap = m;
SortedMap t1 = new java.util.TreeMap();
t1.put(k[0], v[0]);
SortedMap t = java.util.Collections.unmodifiableSortedMap(t1);

testMaps(m, t, n, 0);

System.out.println("Test OK");
return;
}

public static void main(String args[]) {
if (args.length > 1) r = new java.util.Random(seed = Long.parseLong(args[1]));

try {
 test();
} catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println(
"seed: " + seed);
}
}

#endif

```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SortedMaps.drv
```

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```
/*
```

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```
*/
```

```
package PACKAGE;
```

```
import java.util.Collection;
```

```
import java.util.Comparator;
```

```
import java.util.Iterator;
```

```
import java.util.SortedSet;
```

```
import java.util.NoSuchElementException;
```

```
/** A type-specific red-black tree set with a fast, small-footprint implementation.
```

```
*
```

```
* <P>The iterators provided by this class are type-specific
```

```
{ @link
```

```
* it.unimi.dsi.fastutil.BidirectionalIterator bidirectional iterators}.
```

```
* Moreover, the iterator returned by iterator() can be safely cast
```

```
* to a type-specific { @linkplain java.util.ListIterator list iterator}.
```

```
*/
```

```
public class RB_TREE_SET KEY_GENERIC extends ABSTRACT_SORTED_SET KEY_GENERIC implements
java.io.Serializable, Cloneable, SORTED_SET KEY_GENERIC {
```

```
/** A reference to the root entry. */
```

```
protected transient Entry KEY_GENERIC tree;
```

```

/** Number of elements in this set. */
protected int count;

/** The entry of the first element of this set. */
protected transient Entry KEY_GENERIC firstEntry;

/** The entry of the last element of this set. */
protected transient Entry KEY_GENERIC lastEntry;

/** This set's comparator, as provided in the constructor. */
protected Comparator<? super KEY_GENERIC_CLASS> storedComparator;

/** This set's actual comparator; it may differ from {@link #storedComparator} because it is
always a type-specific comparator,
so it could be derived from the former by wrapping. */
protected transient KEY_COMPARATOR KEY_SUPER_GENERIC actualComparator;

 private static final long serialVersionUID = -7046029254386353130L;

 private static final boolean ASSERTS = ASSERTS_VALUE;

 {
 allocatePaths();
 }

/** Creates a new empty tree set.
*/

public RB_TREE_SET() {
 tree = null;
 count = 0;
}

/** Generates the comparator that will be actually used.
*
* <P>When a specific {@link Comparator} is specified and stored in {@link
* #storedComparator}, we must check whether it is type-specific. If it is
* so, we can use it directly, and we store it in {@link #actualComparator}. Otherwise,
* we generate on-the-fly an anonymous class that wraps the non-specific {@link Comparator}
* and makes it into a type-specific one.
*/
private void setActualComparator() {
 if (#keyclass(Object))
 actualComparator = storedComparator;
 else
 /* If the provided comparator is already type-specific, we use
it. Otherwise,
we use a wrapper anonymous class to fake that it is type-specific. */

```

```

if (storedComparator == null || storedComparator instanceof KEY_COMPARATOR) actualComparator =
(KEY_COMPARATOR)storedComparator;
else actualComparator = new KEY_COMPARATOR KEY_GENERIC() {
 public int compare(KEY_GENERIC_TYPE k1, KEY_GENERIC_TYPE k2) {
 return storedComparator.compare(KEY2OBJ(k1), KEY2OBJ(k2));
 }
 public int compare(KEY_CLASS ok1, KEY_CLASS ok2) {
 return storedComparator.compare(ok1, ok2);
 }
};
#endif
}

```

```

/** Creates a new empty tree set with the given comparator.

```

```

*

```

```

* @param c a {@link Comparator} (even better, a type-specific comparator).

```

```

*/

```

```

public RB_TREE_SET(final Comparator<? super KEY_GENERIC_CLASS> c) {
 this();
 storedComparator = c;
 setActualComparator();
}

```

```

/** Creates a new tree set copying a given collection.

```

```

*

```

```

* @param c a collection to be copied into the new tree set.

```

```

*/

```

```

public RB_TREE_SET(final
Collection<? extends KEY_GENERIC_CLASS> c) {
 this();
 addAll(c);
}

```

```

/** Creates a new tree set copying a given sorted set (and its {@link Comparator}).

```

```

*

```

```

* @param s a {@link SortedSet} to be copied into the new tree set.

```

```

*/

```

```

public RB_TREE_SET(final SortedSet<KEY_GENERIC_CLASS> s) {
 this(s.comparator());
 addAll(s);
}

```

```

/** Creates a new tree set copying a given type-specific collection.

```

```

*
* @param c a type-specific collection to be copied into the new tree set.
*/

public RB_TREE_SET(final COLLECTION KEY_EXTENDS_GENERIC c) {
 this();
 addAll(c);
}

/** Creates a new tree set copying a given type-specific sorted set (and its {@link Comparator}).
*
* @param s a type-specific sorted set to be copied into the new tree set.
*/

public RB_TREE_SET(final SORTED_SET KEY_GENERIC s) {
 this(s.comparator());
 addAll(s);
}

/** Creates a new tree set using elements provided by a type-specific iterator.
*
* @param i a type-specific
iterator whose elements will fill the set.
*/

public RB_TREE_SET(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i) {
 while(i.hasNext()) add(i.NEXT_KEY());
}

#if #keys(primitive)

/** Creates a new tree set using elements provided by an iterator.
*
* @param i an iterator whose elements will fill the set.
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public RB_TREE_SET(final Iterator<?> i) {
 this(ITERATORS.AS_KEY_ITERATOR(i));
}

#endif

/** Creates a new tree set and fills it with the elements of a given array using a given {@link Comparator}.
*
* @param a an array whose elements will be used to fill the set.

```

```

* @param offset the first element to use.
* @param length the number of elements to use.
* @param c a { @link Comparator} (even better, a type-specific comparator).
*/

public RB_TREE_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length, final Comparator<? super
KEY_GENERIC_CLASS> c) {
 this(c);
 ARRAYS.ensureOffsetLength(
a, offset, length);
 for(int i = 0; i < length; i++) add(a[offset + i]);
}

/** Creates a new tree set and fills it with the elements of a given array.
*
* @param a an array whose elements will be used to fill the set.
* @param offset the first element to use.
* @param length the number of elements to use.
*/

public RB_TREE_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length) {
 this(a, offset, length, null);
}

/** Creates a new tree set copying the elements of an array.
*
* @param a an array to be copied into the new tree set.
*/

public RB_TREE_SET(final KEY_GENERIC_TYPE[] a) {
 this();
 int i = a.length;
 while(i-- != 0) add(a[i]);
}

/** Creates a new tree set copying the elements of an array using a given { @link Comparator}.
*
* @param a an array to be copied into the new tree set.
* @param c a { @link Comparator} (even better, a type-specific comparator).
*/

public RB_TREE_SET(final KEY_GENERIC_TYPE[]
a, final Comparator<? super KEY_GENERIC_CLASS> c) {
 this(c);
 int i = a.length;

```

```
while(i-- != 0) add(a[i]);
}
```

```
/*
```

```
* The following methods implements some basic building blocks used by
* all accessors. They are (and should be maintained) identical to those used in RBTreeMap.drv.
```

```
*
```

```
* The add()/remove() code is derived from Ben Pfaff's GNU libavl
* (http://www.msu.edu/~pfaffben/avl/). If you want to understand what's
* going on, you should have a look at the literate code contained therein
* first.
```

```
*/
```

```
/** Compares two keys in the right way.
```

```
*
```

```
* <P>This method uses the { @link #actualComparator } if it is non-null.
```

```
* Otherwise, it resorts to primitive type comparisons or to { @link Comparable#compareTo(Object) compareTo() }.
```

```
*
```

```
* @param k1 the first key.
```

```
* @param k2 the second key.
```

```
* @return a number smaller than, equal to or greater than 0, as usual
```

```
* (i.e., when $k1 \leq k2$, $k1 = k2$ or $k1 > k2$, respectively).
```

```
*/
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
final int compare(final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2) {
 return actualComparator == null ? KEY_CMP(k1, k2) : actualComparator.compare(k1, k2);
}
```

```
/** Returns the entry corresponding to the given key, if it is in the tree; null, otherwise.
```

```
*
```

```
* @param k the key to search for.
```

```
* @return the corresponding entry, or null if no entry with the given key exists.
```

```
*/
```

```
private Entry KEY_GENERIC findKey(final KEY_GENERIC_TYPE k) {
 Entry KEY_GENERIC e = tree;
 int cmp;
```

```
while (e != null && (cmp = compare(k, e.key)) != 0)
```

```
 e = cmp < 0 ? e.left() : e.right();
```

```

return e;
}

/** Locates a key.
 *
 * @param k a key.
 * @return the last entry on a search for the given key; this will be
 * the given key, if it present; otherwise, it will be either the smallest greater key or the greatest smaller key.
 */

final Entry KEY_GENERIC locateKey(final KEY_GENERIC_TYPE k) {
 Entry
 KEY_GENERIC e = tree, last = tree;
 int cmp = 0;

 while (e != null && (cmp = compare(k, e.key)) != 0) {
 last = e;
 e = cmp < 0 ? e.left() : e.right();
 }

 return cmp == 0 ? e : last;
}

/** This vector remembers the path and the direction followed during the
 * current insertion. It suffices for about 232 entries. */
private transient boolean dirPath[];
private transient Entry KEY_GENERIC nodePath[];

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void allocatePaths() {
 dirPath = new boolean[64];
 #if #keys(reference)
 nodePath = new Entry[64];
 #else
 nodePath = new Entry[64];
 #endif
}

public boolean add(final KEY_GENERIC_TYPE k) {
 int maxDepth = 0;

 if (tree == null) { // The case of the empty tree is treated separately.
 count++;
 tree = lastEntry = firstEntry = new Entry KEY_GENERIC(k);
 }
 else {

```



```

Entry KEY_GENERIC p = tree, e;
int cmp, i = 0;

while(true) {
 if ((cmp = compare(k, p.key)) == 0)
 {
 // We clean up the node path, or we could have stale references later.
 while(i-- != 0) nodePath[i] = null;
 return false;
 }

 nodePath[i] = p;

 if (dirPath[i++] = cmp > 0) {
 if (p.succ()) {
 count++;
 e = new Entry KEY_GENERIC(k);

 if (p.right == null) lastEntry = e;

 e.left = p;
 e.right = p.right;

 p.right(e);

 break;
 }

 p = p.right;
 }
 else {
 if (p.pred()) {
 count++;
 e = new Entry KEY_GENERIC(k);

 if (p.left == null) firstEntry = e;

 e.right = p;
 e.left = p.left;

 p.left(e);

 break;
 }

 p = p.left;
 }
}

```

```

maxDepth = i--;

while(i > 0 && ! nodePath[i].black()) {
if (! dirPath[i - 1]) {
Entry KEY_GENERIC y = nodePath[i - 1].right;

if (! nodePath[i - 1].succ() && ! y.black()) {
nodePath[i].black(true);
y.black(
true);
nodePath[i - 1].black(false);
i -= 2;
}
else {
Entry KEY_GENERIC x;

if (! dirPath[i]) y = nodePath[i];
else {
x = nodePath[i];
y = x.right;
x.right = y.left;
y.left = x;
nodePath[i - 1].left = y;

if (y.pred()) {
y.pred(false);
x.succ(y);
}
}

x = nodePath[i - 1];
x.black(false);
y.black(true);

x.left = y.right;
y.right = x;
if (i < 2) tree = y;
else {
if (dirPath[i - 2]) nodePath[i - 2].right = y;
else nodePath[i - 2].left = y;
}

if (y.succ()) {
y.succ(false);
x.pred(y);
}
break;

```

```

}
}
else {
 Entry KEY_GENERIC y = nodePath[i - 1].left;

 if (! nodePath[i - 1].pred() && ! y.black()) {
 nodePath[i].black(true);
 y.black(true);
 nodePath[i - 1].black(
false);
 i -= 2;
 }
 else {
 Entry KEY_GENERIC x;

 if (dirPath[i]) y = nodePath[i];
 else {
 x = nodePath[i];
 y = x.left;
 x.left = y.right;
 y.right = x;
 nodePath[i - 1].right = y;

 if (y.succ()) {
 y.succ(false);
 x.pred(y);
 }

 }

 x = nodePath[i - 1];
 x.black(false);
 y.black(true);

 x.right = y.left;
 y.left = x;
 if (i < 2) tree = y;
 else {
 if (dirPath[i - 2]) nodePath[i - 2].right = y;
 else nodePath[i - 2].left = y;
 }

 if (y.pred()){
 y.pred(false);
 x.succ(y);
 }

 break;

```

```

 }
 }
 }
 }
tree.black(true);
// We clean up the node path, or we could have stale references later.
while(maxDepth-- != 0) nodePath[maxDepth] = null;
if (ASSERTS) {
 checkNodePath();
 checkTree(tree, 0, -1);
}
return true;
}

```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```

public
boolean remove(final KEY_TYPE k) {
 if (tree == null) return false;

 Entry KEY_GENERIC p = tree;
 int cmp;
 int i = 0;
 final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;

 while(true) {
 if ((cmp = compare(kk, p.key)) == 0) break;

 dirPath[i] = cmp > 0;
 nodePath[i] = p;

 if (dirPath[i++]) {
 if ((p = p.right()) == null) {
 // We clean up the node path, or we could have stale references later.
 while(i-- != 0) nodePath[i] = null;
 return false;
 }
 }
 else {
 if ((p = p.left()) == null) {
 // We clean up the node path, or we could have stale references later.
 while(i-- != 0) nodePath[i] = null;
 return false;
 }
 }
 }

 if (p.left == null) firstEntry = p.next();
}

```



```

s = r.left;
if (s.pred()) break;
r = s;
}

dirPath[j] = true;
nodePath[j] = s;

if (s.succ()) r.pred(s);
else r.left = s.right;

s.left = p.left;

if
(! p.pred()) {
 p.prev().right = s;
 s.pred(false);
}

s.right(p.right);

color = s.black();
s.black(p.black());
p.black(color);

if (j == 0) tree = s;
else {
 if (dirPath[j - 1]) nodePath[j - 1].right = s;
 else nodePath[j - 1].left = s;
}
}
}

int maxDepth = i;

if (p.black()) {
 for(; i > 0; i--) {
 if (dirPath[i - 1] && ! nodePath[i - 1].succ() ||
 ! dirPath[i - 1] && ! nodePath[i - 1].pred()) {
 Entry KEY_GENERIC x = dirPath[i - 1] ? nodePath[i - 1].right : nodePath[i - 1].left;

 if (! x.black()) {
 x.black(true);
 break;
 }
 }

 if (! dirPath[i - 1]) {

```

```

Entry KEY_GENERIC w = nodePath[i - 1].right;

if (! w.black()) {
 w.black(true);
 nodePath[i - 1].black(false);

 nodePath[i - 1].right = w.left;
 w.left = nodePath[i - 1];

 if (i < 2) tree = w;
 else {
 if
(dirPath[i - 2]) nodePath[i - 2].right = w;
 else nodePath[i - 2].left = w;
 }

 nodePath[i] = nodePath[i - 1];
 dirPath[i] = false;
 nodePath[i - 1] = w;
 if (maxDepth == i++) maxDepth++;

 w = nodePath[i - 1].right;
}

if ((w.pred() || w.left.black()) &&
 (w.succ() || w.right.black())) {
 w.black(false);
}
else {
 if (w.succ() || w.right.black()) {
 Entry KEY_GENERIC y = w.left;

 y.black (true);
 w.black(false);
 w.left = y.right;
 y.right = w;
 w = nodePath[i - 1].right = y;

 if (w.succ()) {
 w.succ(false);
 w.right.pred(w);
 }
 }

 w.black(nodePath[i - 1].black());
 nodePath[i - 1].black(true);
 w.right.black(true);
}

```

```

nodePath[i - 1].right = w.left;
w.left = nodePath[i - 1];

if (i < 2) tree = w;
else {
 if (dirPath[i - 2]) nodePath[
i - 2].right = w;
 else nodePath[i - 2].left = w;
}

if (w.pred()) {
 w.pred(false);
 nodePath[i - 1].succ(w);
}
break;
}
}
else {
 Entry KEY_GENERIC w = nodePath[i - 1].left;

 if (! w.black()) {
 w.black (true);
 nodePath[i - 1].black(false);

 nodePath[i - 1].left = w.right;
 w.right = nodePath[i - 1];

 if (i < 2) tree = w;
 else {
 if (dirPath[i - 2]) nodePath[i - 2].right = w;
 else nodePath[i - 2].left = w;
 }

 nodePath[i] = nodePath[i - 1];
 dirPath[i] = true;
 nodePath[i - 1] = w;
 if (maxDepth == i++) maxDepth++;

 w = nodePath[i - 1].left;
 }

 if ((w.pred() || w.left.black()) &&
 (w.succ() || w.right.black())) {
 w.black(false);
 }
 else {
 if (w.pred() || w.left.black()) {
 Entry KEY_GENERIC y = w.right;

```



```

 y.black(true);
 w.black
(false);
 w.right = y.left;
 y.left = w;
 w = nodePath[i - 1].left = y;

 if (w.pred()) {
 w.pred(false);
 w.left.succ(w);
 }
}

w.black(nodePath[i - 1].black());
nodePath[i - 1].black(true);
w.left.black(true);

nodePath[i - 1].left = w.right;
w.right = nodePath[i - 1];

if (i < 2) tree = w;
else {
 if (dirPath[i - 2]) nodePath[i - 2].right = w;
 else nodePath[i - 2].left = w;
}

if (w.succ()) {
 w.succ(false);
 nodePath[i - 1].pred(w);
}
break;
}
}
}

if (tree != null) tree.black(true);
}

count--;
// We clean up the node path, or we could have stale references later.
while(maxDepth-- != 0) nodePath[maxDepth] = null;
if (ASSERTS) {
 checkNodePath();
 checkTree(tree, 0, -1);
}
return true;
}

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean
contains(final KEY_TYPE k) {
 return findKey(KEY_GENERIC_CAST k) != null;
}

#if #keyclass(Object)
SUPPRESS_WARNINGS_KEY_UNCHECKED
public K get(final KEY_TYPE k) {
 final Entry KEY_GENERIC entry = findKey(KEY_GENERIC_CAST k);
 return entry == null ? null : entry.key;
}
#endif

public void clear() {
 count = 0;
 tree = null;
 firstEntry = lastEntry = null;
}

/** This class represent an entry in a tree set.
 *
 * <P>We use the only "metadata", i.e., { @link Entry#info}, to store
 * information about color, predecessor status and successor status.
 *
 * <P>Note that since the class is recursive, it can be
 * considered equivalently a tree.
 */

private static final class Entry KEY_GENERIC implements Cloneable {
 /** The the bit in this mask is true, the node is black. */
 private final static int BLACK_MASK = 1;
 /** If the bit in this mask is true, { @link #right} points to a successor. */
 private final static int SUCC_MASK = 1 << 31;
 /** If the bit
 in this mask is true, { @link #left} points to a predecessor. */
 private final static int PRED_MASK = 1 << 30;
 /** The key of this entry. */
 KEY_GENERIC_TYPE key;
 /** The pointers to the left and right subtrees. */
 Entry KEY_GENERIC left, right;
 /** This integers holds different information in different bits (see { @link #SUCC_MASK}, { @link
 #PRED_MASK} and { @link #BLACK_MASK}). */
 int info;

 Entry() {}

```

```

/** Creates a new red entry with the given key.
 *
 * @param k a key.
 */
Entry(final KEY_GENERIC_TYPE k) {
 this.key = k;
 info = SUCC_MASK | PRED_MASK;
}

/** Returns the left subtree.
 *
 * @return the left subtree (<code>>null</code> if the left
 * subtree is empty).
 */
Entry KEY_GENERIC left() {
 return (info & PRED_MASK) != 0 ? null : left;
}

/** Returns the right subtree.
 *
 * @return the right subtree (<code>>null</code> if the right
 * subtree is empty).
 */
Entry KEY_GENERIC right() {
 return (info
& SUCC_MASK) != 0 ? null : right;
}

/** Checks whether the left pointer is really a predecessor.
 * @return true if the left pointer is a predecessor.
 */
boolean pred() {
 return (info & PRED_MASK) != 0;
}

/** Checks whether the right pointer is really a successor.
 * @return true if the right pointer is a successor.
 */
boolean succ() {
 return (info & SUCC_MASK) != 0;
}

/** Sets whether the left pointer is really a predecessor.
 * @param pred if true then the left pointer will be considered a predecessor.
 */
void pred(final boolean pred) {
 if (pred) info |= PRED_MASK;
}

```

```

else info &= ~PRED_MASK;
}

/** Sets whether the right pointer is really a successor.
 * @param succ if true then the right pointer will be considered a successor.
 */
void succ(final boolean succ) {
 if (succ) info |= SUCC_MASK;
 else info &= ~SUCC_MASK;
}

/** Sets the left pointer to a predecessor.
 * @param pred the predecessr.
 */
void pred(final Entry KEY_GENERIC pred) {
 info |= PRED_MASK;
 left = pred;
}

/** Sets the right pointer to a successor.
 * @param succ the successor.
 */
void succ(final Entry KEY_GENERIC succ) {
 info |= SUCC_MASK;
 right = succ;
}

/** Sets the left pointer to the given subtree.
 * @param left the new left subtree.
 */
void left(final Entry KEY_GENERIC left) {
 info &= ~PRED_MASK;
 this.left = left;
}

/** Sets the right pointer to the given subtree.
 * @param right the new right subtree.
 */
void right(final Entry KEY_GENERIC right) {
 info &= ~SUCC_MASK;
 this.right = right;
}

/** Returns whether this node is black.
 * @return true iff this node is black.
 */
boolean black() {

```

```

return (info & BLACK_MASK) != 0;
}

/** Sets whether this node is black.
 * @param black if true, then this node becomes black; otherwise, it becomes red..
 */
void black(final boolean black) {
 if
(black) info |= BLACK_MASK;
 else info &= ~BLACK_MASK;
}

/** Computes the next entry in the set order.
 *
 * @return the next entry (<code>>null</code>) if this is the last entry).
 */

Entry KEY_GENERIC next() {
 Entry KEY_GENERIC next = this.right;
 if ((info & SUCC_MASK) == 0) while ((next.info & PRED_MASK) == 0) next = next.left;
 return next;
}

/** Computes the previous entry in the set order.
 *
 * @return the previous entry (<code>>null</code>) if this is the first entry).
 */

Entry KEY_GENERIC prev() {
 Entry KEY_GENERIC prev = this.left;
 if ((info & PRED_MASK) == 0) while ((prev.info & SUCC_MASK) == 0) prev = prev.right;
 return prev;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public Entry KEY_GENERIC clone() {
 Entry KEY_GENERIC c;
 try {
 c = (Entry KEY_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.key = key;
 c.info = info;

 return

```

```

c;
}

public boolean equals(final Object o) {
 if (!(o instanceof Entry)) return false;
 Entry KEY_GENERIC_WILDCARD e = (Entry KEY_GENERIC_WILDCARD)o;

 return KEY_EQUALS(key, e.key);
}

public int hashCode() {
 return KEY2JAVAHASH_NOT_NULL(key);
}

public String toString() {
 return String.valueOf(key);
}

/*
 public void prettyPrint() {
 prettyPrint(0);
 }

 public void prettyPrint(int level) {
 if (pred()) {
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println("pred: " + left);
 }
 else if (left != null)
 left.prettyPrint(level +1);
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println(key + " (" + (black() ? "black" : "red") + ")");
 if (succ()) {
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println("succ: " + right);
 }
 else if (right != null)
 right.prettyPrint(level + 1);
 }*/
}

/*

```

```

 public void prettyPrint() {
 System.err.println("size: " + count);
 if (tree != null) tree.prettyPrint();
 }
}

public int size() {
 return count;
}

public boolean isEmpty() {
 return count == 0;
}

public KEY_GENERIC_TYPE FIRST() {
 if (tree == null) throw new NoSuchElementException();
 return firstEntry.key;
}

public KEY_GENERIC_TYPE LAST() {
 if (tree == null) throw new NoSuchElementException();
 return lastEntry.key;
}

/** An iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class SetIterator extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC {
 /** The entry that will be returned by the next call to {@link java.util.ListIterator#previous()} (or
 <code>>null</code> if no previous entry exists). */
 Entry KEY_GENERIC prev;
 /** The entry that will be returned by the next call to {@link java.util.ListIterator#next()} (or <code>>null</code> if
 no next entry exists). */
 Entry
 KEY_GENERIC next;
 /** The last entry that was returned (or <code>>null</code> if we did not iterate or used {@link #remove()}). */
 Entry KEY_GENERIC curr;
 /** The current index (in the sense of a {@link java.util.ListIterator}). Note that this value is not meaningful when
 this iterator has been created using the nonempty constructor.*/
 int index = 0;

 SetIterator() {
 next = firstEntry;
 }
}

```

```

SetIterator(final KEY_GENERIC_TYPE k) {
 if ((next = locateKey(k)) != null) {
 if (compare(next.key, k) <= 0) {
 prev = next;
 next = next.next();
 }
 else prev = next.prev();
 }
}

public boolean hasNext() { return next != null; }
public boolean hasPrevious() { return prev != null; }

void updateNext() {
 next = next.next();
}

Entry KEY_GENERIC nextEntry() {
 if (! hasNext()) throw new NoSuchElementException();
 curr = prev = next;
 index++;
 updateNext();
 return curr;
}

public KEY_GENERIC_TYPE NEXT_KEY() { return
nextEntry().key; }
public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }

void updatePrevious() {
 prev = prev.prev();
}

Entry KEY_GENERIC previousEntry() {
 if (! hasPrevious()) throw new NoSuchElementException();
 curr = next = prev;
 index--;
 updatePrevious();
 return curr;
}

public int nextIndex() {
 return index;
}

public int previousIndex() {
 return index - 1;
}

```



```

public void remove() {
 if (curr == null) throw new IllegalStateException();
 /* If the last operation was a next(), we are removing an entry that precedes
 the current index, and thus we must decrement it. */
 if (curr == prev) index--;
 next = prev = curr;
 updatePrevious();
 updateNext();
 RB_TREE_SET.this.remove(curr.key);
 curr = null;
}
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() {
 return new SetIterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) {
 return new SetIterator(
 from);
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
 return actualComparator;
}

public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_TYPE to) {
 return new Subset(KEY_NULL, true, to, false);
}

public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_TYPE from) {
 return new Subset(from, false, KEY_NULL, true);
}

public SORTED_SET KEY_GENERIC subSet(final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to) {
 return new Subset(from, false, to, false);
}

/** A subset with given range.
 *
 * <P>This class represents a subset. One has to specify the left/right
 * limits (which can be set to -∞ or ∞). Since the subset is a
 * view on the set, at a given moment it could happen that the limits of

```

```

* the range are not any longer in the main set. Thus, things such as
* { @link java.util.SortedSet#first()} or { @link java.util.Collection#size()} must be always computed
* on-the-fly.
*/
private final class Subset extends ABSTRACT_SORTED_SET
KEY_GENERIC implements java.io.Serializable, SORTED_SET KEY_GENERIC {
 private static final long serialVersionUID = -7046029254386353129L;

 /** The start of the subset range, unless { @link #bottom} is true. */
 KEY_GENERIC_TYPE from;
 /** The end of the subset range, unless { @link #top} is true. */
 KEY_GENERIC_TYPE to;
 /** If true, the subset range starts from $-\infty$. */
 boolean bottom;
 /** If true, the subset range goes to ∞ . */
 boolean top;

 /** Creates a new subset with given key range.
 *
 * @param from the start of the subset range.
 * @param bottom if true, the first parameter is ignored and the range starts from $-\infty$.
 * @param to the end of the subset range.
 * @param top if true, the third parameter is ignored and the range goes to ∞ .
 */
 public Subset(final KEY_GENERIC_TYPE from, final boolean bottom, final KEY_GENERIC_TYPE to, final
boolean top) {
 if (! bottom && ! top && RB_TREE_SET.this.compare(
from, to) > 0) throw new IllegalArgumentException("Start element (" + from + ") is larger than end element (" +
to + ")");

 this.from = from;
 this.bottom = bottom;
 this.to = to;
 this.top = top;
 }

 public void clear() {
 final SubsetIterator i = new SubsetIterator();
 while(i.hasNext()) {
 i.NEXT_KEY();
 i.remove();
 }
 }

 /** Checks whether a key is in the subset range.
 * @param k a key.
 * @return true if is the key is in the subset range.
 */

```

```

final boolean in(final KEY_GENERIC_TYPE k) {
 return (bottom || RB_TREE_SET.this.compare(k, from) >= 0) &&
 (top || RB_TREE_SET.this.compare(k, to) < 0);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean contains(final KEY_TYPE k) {
 return in(KEY_GENERIC_CAST k) && RB_TREE_SET.this.contains(k);
}

public boolean add(final KEY_GENERIC_TYPE k) {
 if (! in(k)) throw new IllegalArgumentException("Element (" + k + ") out of range [" + (bottom ? "-" :
String.valueOf(
from)) + ", " + (top ? "-" : String.valueOf(to)) + "]");
 return RB_TREE_SET.this.add(k);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean remove(final KEY_TYPE k) {
 if (! in(KEY_GENERIC_CAST k)) return false;
 return RB_TREE_SET.this.remove(k);
}

public int size() {
 final SubsetIterator i = new SubsetIterator();
 int n = 0;

 while(i.hasNext()) {
 n++;
 i.NEXT_KEY();
 }

 return n;
}

public boolean isEmpty() {
 return ! new SubsetIterator().hasNext();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
 return actualComparator;
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() {
 return new SubsetIterator();
}

```

```

public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) {
 return new SubsetIterator(from);
}

public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_TYPE to) {
 if (top) return new Subset(from, bottom, to, false);
 return compare(
to, this.to) < 0 ? new Subset(from, bottom, to, false) : this;
}

public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_TYPE from) {
 if (bottom) return new Subset(from, false, to, top);
 return compare(from, this.from) > 0 ? new Subset(from, false, to, top) : this;
}

public SORTED_SET KEY_GENERIC subSet(KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to) {
 if (top && bottom) return new Subset(from, false, to, false);
 if (! top) to = compare(to, this.to) < 0 ? to : this.to;
 if (! bottom) from = compare(from, this.from) > 0 ? from : this.from;
 if (! top && ! bottom && from == this.from && to == this.to) return this;
 return new Subset(from, false, to, false);
}

/** Locates the first entry.
 *
 * @return the first entry of this subset, or <code>null</code> if the subset is empty.
 */
public RB_TREE_SET.Entry KEY_GENERIC firstEntry() {
 if (tree == null) return null;
 // If this subset goes to -infinity,
we return the main set first entry; otherwise, we locate the start of the set.
 RB_TREE_SET.Entry KEY_GENERIC e;
 if (bottom) e = firstEntry();
 else {
 e = locateKey(from);
 // If we find either the start or something greater we're OK.
 if (compare(e.key, from) < 0) e = e.next();
 }
 // Finally, if this subset doesn't go to infinity, we check that the resulting key isn't greater than the end.
 if (e == null || ! top && compare(e.key, to) >= 0) return null;
 return e;
}

/** Locates the last entry.
 *
 * @return the last entry of this subset, or <code>null</code> if the subset is empty.
 */

```

```

public RB_TREE_SET.Entry KEY_GENERIC lastEntry() {
 if (tree == null) return null;
 // If this subset goes to infinity, we return the main set last entry; otherwise, we locate the end of the set.
 RB_TREE_SET.Entry KEY_GENERIC e;
 if (top) e = lastEntry;
 else {
 e = locateKey(to);
 // If we find something smaller than the
end we're OK.
 if (compare(e.key, to) >= 0) e = e.prev();
 }
 // Finally, if this subset doesn't go to -infinity, we check that the resulting key isn't smaller than the start.
 if (e == null || ! bottom && compare(e.key, from) < 0) return null;
 return e;
}

public KEY_GENERIC_TYPE FIRST() {
 RB_TREE_SET.Entry KEY_GENERIC e = firstEntry();
 if (e == null) throw new NoSuchElementException();
 return e.key;
}

public KEY_GENERIC_TYPE LAST() {
 RB_TREE_SET.Entry KEY_GENERIC e = lastEntry();
 if (e == null) throw new NoSuchElementException();
 return e.key;
}

/** An iterator for subranges.
 *
 * <P>This class inherits from { @link SetIterator}, but overrides the methods that
 * update the pointer after a { @link java.util.ListIterator#next()} or { @link java.util.ListIterator#previous()}. If we
would
 * move out of the range of the subset we just overwrite the next or previous
 * entry with <code>null</code>.
 */
private final
class SubsetIterator extends SetIterator {
 SubsetIterator() {
 next = firstEntry();
 }

 SubsetIterator(final KEY_GENERIC_TYPE k) {
 this();

 if (next != null) {
 if (! bottom && compare(k, next.key) < 0) prev = null;

```

```

else if (! top && compare(k, (prev = lastEntry()).key) >= 0) next = null;
else {
 next = locateKey(k);

 if (compare(next.key, k) <= 0) {
 prev = next;
 next = next.next();
 }
 else prev = next.prev();
}
}
}

void updatePrevious() {
 prev = prev.prev();
 if (! bottom && prev != null && RB_TREE_SET.this.compare(prev.key, from) < 0) prev = null;
}

void updateNext() {
 next = next.next();
 if (! top && next != null && RB_TREE_SET.this.compare(next.key, to) >= 0) next = null;
}
}

/** Returns a deep copy of this tree set.
 *
 * <P>This method performs a deep copy of this tree set; the data stored in the
 * set, however, is not
 * cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this tree set.
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public Object clone() {
 RB_TREE_SET KEY_GENERIC c;
 try {
 c = (RB_TREE_SET KEY_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.allocatePaths();
}

```

```

if (count != 0) {
 // Also this apparently unfathomable code is derived from GNU libavl.
 Entry KEY_GENERIC e, p, q, rp = new Entry KEY_GENERIC(), rq = new Entry KEY_GENERIC();

 p = rp;
 rp.left(tree);

 q = rq;
 rq.pred(null);

 while(true) {
 if (! p.pred()) {
 e = p.left.clone();
 e.pred(q.left);
 e.succ(q);
 q.left(e);

 p = p.left;
 q = q.left;
 }
 else {
 while(p.succ()) {
 p = p.right;

 if (p == null) {
 q.right = null;
 c.tree = rq.left;

 c.firstEntry = c.tree;
 while(c.firstEntry.left != null) c.firstEntry
= c.firstEntry.left;
 c.lastEntry = c.tree;
 while(c.lastEntry.right != null) c.lastEntry = c.lastEntry.right;

 return c;
 }
 q = q.right;
 }

 p = p.right;
 q = q.right;
 }

 if (! p.succ()) {
 e = p.right.clone();
 e.succ(q.right);
 e.pred(q);
 q.right(e);

```

```

 }
 }
}

return c;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 int n = count;
 SetIterator i = new SetIterator();

 s.defaultWriteObject();
 while(n-- != 0) s.WRITE_KEY(i.NEXT_KEY());
}

/** Reads the given number of entries from the input stream, returning the corresponding tree.
 *
 * @param s the input stream.
 * @param n the (positive) number of entries to read.
 * @param pred the entry containing the key that preceeds the first key in the tree.
 * @param succ the entry containing the key that follows the last key in the tree.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
private
Entry KEY_GENERIC readTree(final java.io.ObjectInputStream s, final int n, final Entry KEY_GENERIC pred,
final Entry KEY_GENERIC succ) throws java.io.IOException, ClassNotFoundException {
 if (n == 1) {
 final Entry KEY_GENERIC top = new Entry KEY_GENERIC(KEY_GENERIC_CAST s.READ_KEY());
 top.pred(pred);
 top.succ(succ);
 top.black(true);

 return top;
 }

 if (n == 2) {
 /* We handle separately this case so that recursion will
 always be on nonempty subtrees. */
 final Entry KEY_GENERIC top = new Entry KEY_GENERIC(KEY_GENERIC_CAST s.READ_KEY());
 top.black(true);
 top.right(new Entry KEY_GENERIC(KEY_GENERIC_CAST s.READ_KEY()));
 top.right.pred(top);
 top.pred(pred);
 top.right.succ(succ);

 return top;
 }
}

```



```

}

// The right subtree is the largest one.
final int rightN = n / 2, leftN = n - rightN - 1;

final Entry KEY_GENERIC top = new Entry KEY_GENERIC();

top.left(readTree(s, leftN, pred, top));

top.key =
KEY_GENERIC_CAST s.READ_KEY();
top.black(true);

top.right(readTree(s, rightN, top, succ));

if (n + 2 == ((n + 2) & -(n + 2))) top.right.black(false); // Quick test for determining whether n + 2 is a power
of 2.

return top;
}

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
s.defaultReadObject();
/* The storedComparator is now correctly set, but we must restore
on-the-fly the actualComparator. */
setActualComparator();
allocatePaths();

if (count != 0) {
tree = readTree(s, count, null, null);
Entry KEY_GENERIC e;

e = tree;
while(e.left() != null) e = e.left();
firstEntry = e;

e = tree;
while(e.right() != null) e = e.right();
lastEntry = e;
}

if (ASSERTS) checkTree(tree, 0, -1);
}

#ifdef ASSERTS_CODE
private void checkNodePath() {

```

```

for(int i = nodePath.length; i-- != 0;) assert nodePath[i] == null : i;
}

private static KEY_GENERIC
int checkTree(Entry KEY_GENERIC e, int d, int D) {
 if (e == null) return 0;
 if (e.black()) d++;
 if (e.left() != null) D = checkTree(e.left(), d, D);
 if (e.right() != null) D = checkTree(e.right(), d, D);
 if (e.left() == null && e.right() == null) {
 if (D == -1) D = d;
 else if (D != d) throw new AssertionError("Mismatch between number of black nodes (" + D + " and " + d + ")");
 }
 return D;
}
#else
private void checkNodePath() {}
@SuppressWarnings("unused")
private int checkTree(Entry KEY_GENERIC e, int d, int D) { return 0; }
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
 #elif #keys(primitive)
 return r.NEXT_KEY();
 #else
 return Integer.toBinaryString(r.nextInt());
 #endif
}

private static java.text.NumberFormat
format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
 int i, j;
 RB_TREE_SET m;

```

```

java.util.TreeSet t;
KEY_TYPE k[] = new KEY_TYPE[n];
KEY_TYPE nk[] = new KEY_TYPE[n];
long ms;

for(i = 0; i < n; i++) {
 k[i] = genKey();
 nk[i] = genKey();
}

double totAdd = 0, totYes = 0, totNo = 0, totIterFor = 0, totIterBack = 0, totRemYes = 0, d, dd;

if (comp) {
 for(j = 0; j < 20; j++) {

 t = new java.util.TreeSet();

 /* We first add all pairs to t. */
 for(i = 0; i < n; i++) t.add(KEY2OBJ(k[i]));

 /* Then we remove the first half and put it back. */
 for(i = 0; i < n/2; i++) t.remove(KEY2OBJ(k[i]));

 ms = System.currentTimeMillis();
 for(i = 0; i < n/2;
i++) t.add(KEY2OBJ(k[i]));
 d = System.currentTimeMillis() - ms;

 /* Then we remove the other half and put it back again. */
 ms = System.currentTimeMillis();
 for(i = n/2; i < n; i++) t.remove(KEY2OBJ(k[i]));
 dd = System.currentTimeMillis() - ms ;

 ms = System.currentTimeMillis();
 for(i = n/2; i < n; i++) t.add(KEY2OBJ(k[i]));
 d += System.currentTimeMillis() - ms;
 if (j > 2) totAdd += n/d;
 System.out.print("Add: " + format(n/d) + " K/s ");

 /* Then we remove again the first half. */
 ms = System.currentTimeMillis();
 for(i = 0; i < n/2; i++) t.remove(KEY2OBJ(k[i]));
 dd += System.currentTimeMillis() - ms ;
 if (j > 2) totRemYes += n/dd;
 System.out.print("RemYes: " + format(n/dd) + " K/s ");

 /* And then we put it back. */
 for(i = 0; i < n/2; i++) t.add(KEY2OBJ(k[i]));

```

```

 /* We check for pairs in t. */
 ms = System.currentTimeMillis();
 for(i = 0; i < n; i++
) t.contains(KEY2OBJ(k[i]));
 d = 1.0 * n / (System.currentTimeMillis() - ms);
 if (j > 2) totYes += d;
 System.out.print("Yes: " + format(d) + " K/s ");

 /* We check for pairs not in t. */
 ms = System.currentTimeMillis();
 for(i = 0; i < n; i++) t.contains(KEY2OBJ(nk[i]));
 d = 1.0 * n / (System.currentTimeMillis() - ms);
 if (j > 2) totNo += d;
 System.out.print("No: " + format(d) + " K/s ");

 /* We iterate on t. */
 ms = System.currentTimeMillis();
 for(Iterator it = t.iterator(); it.hasNext(); it.next());
 d = 1.0 * n / (System.currentTimeMillis() - ms);
 if (j > 2) totIterFor += d;
 System.out.print("IterFor: " + format(d) + " K/s ");

 System.out.println();
}

System.out.println();
System.out.println("java.util Add: " + format(totAdd/(j-3)) + " K/s RemYes: " + format(totRemYes/(j-3)) + " K/s
Yes: " + format(totYes/(j-3)) + " K/s No: " + format(totNo/(j-3)) + " K/s
IterFor: " + format(totIterFor/(j-3)) + " K/s");

System.out.println();

totAdd = totYes = totNo = totIterFor = totIterBack = totRemYes = 0;

}

for(j = 0; j < 20; j++) {

 m = new RB_TREE_SET();

 /* We first add all pairs to m. */
 for(i = 0; i < n; i++) m.add(k[i]);

 /* Then we remove the first half and put it back. */
 for(i = 0; i < n/2; i++) m.remove(k[i]);

```

```

ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) m.add(k[i]);
d = System.currentTimeMillis() - ms;

/* Then we remove the other half and put it back again. */
ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) m.remove(k[i]);
dd = System.currentTimeMillis() - ms ;

ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) m.add(k[i]);
d += System.currentTimeMillis() - ms;
if (j > 2) totAdd += n/d;
System.out.print("Add: " + format(n/d) +" K/s ");

/* Then we remove again the first half. */
ms = System.currentTimeMillis();
for(
i = 0; i < n/2; i++) m.remove(k[i]);
dd += System.currentTimeMillis() - ms ;
if (j > 2) totRemYes += n/dd;
System.out.print("RemYes: " + format(n/dd) +" K/s ");

/* And then we put it back. */
for(i = 0; i < n/2; i++) m.add(k[i]);

/* We check for pairs in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.contains(k[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) +" K/s ");

/* We check for pairs not in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.contains(nk[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totNo += d;
System.out.print("No: " + format(d) +" K/s ");

/* We iterate on m. */
KEY_LIST_ITERATOR it = (KEY_LIST_ITERATOR)m.iterator();
ms = System.currentTimeMillis();
for(; it.hasNext(); it.NEXT_KEY());
d = 1.0 * n / (System.currentTimeMillis()
- ms);
if (j > 2) totIterFor += d;
System.out.print("IterFor: " + format(d) +" K/s ");

```

```

/* We iterate back on m. */
ms = System.currentTimeMillis();
for(; it.hasPrevious(); it.PREV_KEY());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterBack += d;
System.out.print("IterBack: " + format(d) + " K/s ");

System.out.println();
}

System.out.println();
System.out.println("fastutil Add: " + format(totAdd/(j-3)) + " K/s RemYes: " + format(totRemYes/(j-3)) + " K/s
Yes: " + format(totYes/(j-3)) + " K/s No: " + format(totNo/(j-3)) + " K/s IterFor: " + format(totIterFor/(j-3)) + "
K/s IterBack: " + format(totIterBack/(j-3)) + "K/s");

System.out.println();
}

private static boolean valEquals(Object o1, Object o2) {
return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal(String msg) {
System.out.println(msg);
System.exit(1);
}

private
static void ensure(boolean cond, String msg) {
if (cond) return;
fatal(msg);
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static RB_TREE_SET topSet;

protected static void testSets(SORTED_SET m, SortedSet t, int n, int level) {
long ms;
boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement;
boolean rt = false, rm = false;

if (level > 4) return;

```

```

/* Now we check that both sets agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.first();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.first();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): first() divergence at start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")
");
if (! mThrowsNoElement) ensure(t.first().equals(m.first()), "Error (" + level + ", " + seed + "): m and t differ at
start on their first key (" + m.first() + ", " + t.first() + ")");

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.last();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.last();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): last() divergence at start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")
");

if (! mThrowsNoElement) ensure(t.last().equals(m.last()), "Error (" + level + ", " + seed + "): m and t differ at
start on their last key (" + m.last() + ", " + t.last() + ")");

/* Now we check that m and t are equal. */
if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(m.equals(
t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

```

```

/* Now we check that m actually holds that data. */
for(Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.iterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)");
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.contains(T);
 }
 catch (NoSuchElementException
e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 t.contains(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)),
"Error (" + level + ", " + seed + "): divergence in keys between t and m (polymorphic method)");
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard
method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

```



```

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.contains(KEY2OBJ(T));
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }

try {
 t.contains(KEY2OBJ(T));
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
if (!mThrowsNoElement && !mThrowsIllegal) ensure(m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence between t and m (standard method)");
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 rm = m.add(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 rt = t.add(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence
in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(rm == rt, "Error (" + level + ", " + seed + "): divergence in
add() between t and m");
}

```

```

T = genKey();

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 rm = m.remove(KEY2OBJ(T));
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }

try {
 rt = t.remove(KEY2OBJ(T));
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + "));
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove()
divergence in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + "));
if (!mThrowsNoElement && !mThrowsIllegal) ensure(rm == rt, "Error (" + level + ", " + seed + "): divergence in
remove() between t and m");
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal");

/* Now we check that m actually holds the same data. */

for(Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(Iterator i=m.iterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

/* Now we check that both
sets agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

```

```

try {
 m.first();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.first();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): first() divergence in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
if (! mThrowsNoElement) ensure(t.first().equals(m.first()), "Error (" + level + ", " + seed + "): m and t differ on
their first key (" + m.first() + ", " + t.first() + ")");

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.last();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.last();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement,
"Error (" + level + ", " + seed + "): last() divergence in NoSuchElementException (" + mThrowsNoElement + ", " +
tThrowsNoElement + ")");

if (! mThrowsNoElement) ensure(t.last().equals(m.last()), "Error (" + level + ", " + seed + "): m and t differ on
their last key (" + m.last() + ", " + t.last() + ")");

/* Now we check cloning. */

if (level == 0) {
 ensure(m.equals(((RB_TREE_SET)m).clone()), "Error (" + level + ", " + seed + "): m does not equal m.clone()");
 ensure(((RB_TREE_SET)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m");
 m = (RB_TREE_SET)((RB_TREE_SET)m).clone();
}

/* Now we play with constructors. */
ensure(m.equals(new RB_TREE_SET((Collection)m)), "Error (" + level + ", " + seed + "): m does not equal new
(Collection m)");
ensure((new RB_TREE_SET((Collection)m)).equals(m), "Error (" + level + ", " + seed + "): new (Collection m
)does not equal m");
ensure(m.equals(new RB_TREE_SET(
(COLLECTION)m)), "Error (" + level + ", " + seed + "): m does not equal new (type-specific Collection m)");
ensure((new RB_TREE_SET((COLLECTION)m)).equals(m), "Error (" + level + ", " + seed + "): new (type-

```

```

specific Collection m) does not equal m");
 ensure(m.equals(new RB_TREE_SET((SortedSet)m)), "Error (" + level + ", " + seed + "): m does not equal new
(SortedSet m)");
 ensure((new RB_TREE_SET((SortedSet)m)).equals(m), "Error (" + level + ", " + seed + "): new (SortedSet m)
does not equal m");
 ensure(m.equals(new RB_TREE_SET((SORTED_SET)m)), "Error (" + level + ", " + seed + "): m does not equal
new (type-specific SortedSet m)");
 ensure((new RB_TREE_SET((SORTED_SET)m)).equals(m), "Error (" + level + ", " + seed + "): new (type-
specific SortedSet m) does not equal m");
 ensure(m.equals(new RB_TREE_SET(m.iterator())), "Error (" + level + ", " + seed + "): m does not equal new (
m.iterator())");
 ensure((new
RB_TREE_SET(m.iterator())).equals(m), "Error (" + level + ", " + seed + "): new (m.iterator()) does not equal
m");
 ensure(m.equals(new RB_TREE_SET(m.iterator())), "Error (" + level + ", " + seed + "): m does not equal new (
m.type_specific_iterator())");
 ensure((new RB_TREE_SET(m.iterator())).equals(m), "Error (" + level + ", " + seed + "): new (
m.type_specific_iterator()) does not equal m");

 /* Now we play with conversion to array, wrapping and copying. */
 ensure(m.equals(new RB_TREE_SET(m.TO_KEY_ARRAY())), "Error (" + level + ", " + seed + "): m does not
equal new (toArray(m)");
 ensure((new RB_TREE_SET(m.TO_KEY_ARRAY())).equals(m), "Error (" + level + ", " + seed + "): new (
toArray(m)) does not equal m");

int h = m.hashCode();

 /* Now we save and read m. */

SORTED_SET m2 = null;

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream
oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m2 = (SORTED_SET)ois.readObject();
 ois.close();

```

```

ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit(1);
}

ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

/* Now we check that m2 actually holds that data. */

ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");

/* Now we take out of m everything, and check that it is empty. */

for(Iterator i=t.iterator(); i.hasNext();) m2.remove(i.next());

ensure(m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty
(as it should be)");

/* Now we play with iterators. */

{
java.util.ListIterator i, j;
Object J;
i = (java.util.ListIterator)m.iterator();
j = new java.util.LinkedList(t).listIterator();

for(int k = 0; k < 2*n; k++) {
ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()");
ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()");

if (r.nextFloat() < .8 && i.hasNext()) {
ensure(i.next().equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next()");

if (r.nextFloat() < 0.5) {
i.remove();
j.remove();
t.remove(J);
}
}
else if (r.nextFloat() < .2 && i.hasPrevious()) {
ensure(i.previous().equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence in previous()");

if (r.nextFloat() < 0.5) {
i.remove();
j.remove();
}
}
}

```

```

 t.remove(
J);
 }
}

ensure(i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()");
ensure(i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()");

}

}

{
boolean badPrevious = false;
Object previous = null;
it.unimi.dsi.fastutil.BidirectionalIterator i;
java.util.ListIterator j;
Object I, J;
KEY_TYPE from = genKey();
j = new java.util.LinkedList(t).listIterator();
while(j.hasNext()) {
 Object k = j.next();
 if (((Comparable)k).compareTo(KEY2OBJ(from)) > 0) {
 badPrevious = true;
 j.previous();
 break;
 }
 previous = k;
}

i = (it.unimi.dsi.fastutil.BidirectionalIterator)m.iterator(from);

for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")");
 ensure(i.hasPrevious() == j.hasPrevious()
|| badPrevious && (i.hasPrevious() == (previous != null)), "Error (" + level + ", " + seed + "): divergence in
hasPrevious() (iterator with starting point " + from + ")" + badPrevious);

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure((I = i.next()).equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")");
 //System.err.println("Done next " + I + " " + J + " " + badPrevious);

 badPrevious = false;

 if (r.nextFloat() < 0.5) {
 //System.err.println("Removing in next");

```

```

 i.remove();
 j.remove();
 t.remove(J);
 }
}
else if (!badPrevious && r.nextFloat() < .2 && i.hasPrevious()) {
 ensure((I = i.previous()).equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J + ", iterator with starting point " + from + "));

 if (r.nextFloat() < 0.5) {
 //System.err.println("Removing
in prev");
 i.remove();
 j.remove();
 t.remove(J);
 }
}
}

/* Now we check that m actually holds that data. */

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after iteration");

/* Now we select a pair of keys and create a subset. */

if (! m.isEmpty()) {
 java.util.ListIterator i;
 Object start = m.first(), end = m.first();
 for(i = (java.util.ListIterator)m.iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next());
 for(; i.hasNext() && r.nextFloat() < .95; end = i.next());

 //System.err.println("Checking subSet from " + start + " to " + end + " (level=" + (level+1) + ")...");
 testSets((SORTED_SET)m.subSet((KEY_CLASS)start, (KEY_CLASS)end), t.subSet(start, end), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(
t) after subSet");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subSet");

 //System.err.println("Checking headSet to " + end + " (level=" + (level+1) + ")...");
 testSets((SORTED_SET)m.headSet((KEY_CLASS)end), t.headSet(end), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after headSet");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after headSet");

 //System.err.println("Checking tailSet from " + start + " (level=" + (level+1) + ")...");

```

```

testSets((SORTED_SET)m.tailSet((KEY_CLASS)start), t.tailSet(start), n, level + 1);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after tailSet");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after tailSet");
}

}

private static void test(int n) {
 RB_TREE_SET m = new RB_TREE_SET();
 SortedSet t = new java.util.TreeSet();
 topSet
 = m;
 k = new Object[n];
 nk = new Object[n];
 kt = new KEY_TYPE[n];
 nkt = new KEY_TYPE[n];

 for(int i = 0; i < n; i++) {
 #if #keyclass(Object)
 k[i] = kt[i] = genKey();
 nk[i] = nkt[i] = genKey();
 #else
 k[i] = new KEY_CLASS(kt[i] = genKey());
 nk[i] = new KEY_CLASS(nkt[i] = genKey());
 #endif
 }

 /* We add pairs to t. */
 for(int i = 0; i < n; i++) t.add(k[i]);

 /* We add to m the same data */
 m.addAll(t);

 testSets(m, t, n, 0);

 System.out.println("Test OK");
 return;
}

public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {

```



```
if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
else if ("test".equals(args[0])) test(n);
} catch(Throwable e) {
e.printStackTrace(System.err);
System.err.println("seed: " + seed);
}
}
}

#endif

}
```

## Found

in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/RBTreeSet.drv

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*/

```

```
package PACKAGE;
```

```
import java.util.ListIterator;
import it.unimi.dsi.fastutil.BigListIterator;
```

```

/** An abstract class facilitating the creation of type-specific { @link it.unimi.dsi.fastutil.BigListIterator big-
list iterators }.
*
* <p>This implementation provides (deprecated) implementations of { @link ListIterator#previousIndex()}
and { @link ListIterator#nextIndex()} that
* just invoke the corresponding { @link BigListIterator} methods.
*
* @see java.util.ListIterator
* @see it.unimi.dsi.fastutil.BigListIterator
*/

```

```
public abstract class KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC extends
KEY_ABSTRACT_BIDI_ITERATOR KEY_GENERIC implements KEY_BIG_LIST_ITERATOR
KEY_GENERIC {
```

```
protected KEY_ABSTRACT_BIG_LIST_ITERATOR() {}
```

```
#if #keys(primitive)
```

```
/** Delegates to the corresponding type-specific method. */
```

```
public void set(KEY_GENERIC_CLASS ok) { set(ok.KEY_VALUE()); }
```

```
/** Delegates to the corresponding type-specific method. */
```

```
public void add(KEY_GENERIC_CLASS ok) { add(ok.KEY_VALUE()); }
```

```
#endif
```

```
/** This method just throws an { @link UnsupportedOperationException}. */
```

```
public void set(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
```

```
/** This method just throws an { @link UnsupportedOperationException}. */
```

```
public void add(KEY_GENERIC_TYPE k) { throw new
UnsupportedOperationException(); }
```

```
/** This method just iterates the type-specific version of { @code next()} for at most
```

```
* <code>n</code> times, stopping if { @link #hasNext() } becomes false.*/
```

```
public long skip(final long n) {
 long i = n;
 while(i-- != 0 && hasNext()) NEXT_KEY();
 return n - i - 1;
}
```

```
/** This method just iterates the type-specific version of { @link #previous() } for
 * at most <code>n</code> times, stopping if { @link
 * #hasPrevious() } becomes false. */
```

```
public long back(final long n) {
 long i = n;
 while(i-- != 0 && hasPrevious()) PREV_KEY();
 return n - i - 1;
}
```

```
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/AbstractBigListIterator.drv
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```

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```
*/
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.Hash;
```

```
import it.unimi.dsi.fastutil.HashCommon;
```

```
import static it.unimi.dsi.fastutil.HashCommon.arraySize;
```

```
import static it.unimi.dsi.fastutil.HashCommon.maxFill;
```

```
import java.util.Arrays;
import java.util.Collection;
import java.util.Iterator;
import java.util.NoSuchElementException;
```

```
#ifdef
Linked
```

```
#if #keys(reference)
import java.util.Comparator;
#endif
```

```
/** A type-specific linked hash set with with a fast, small-footprint implementation.
```

```
*
```

```
* <P>Instances of this class use a hash table to represent a set. The table is
* filled up to a specified load factor, and then doubled in size to
* accommodate new entries. If the table is emptied below one fourth
* of the load factor, it is halved in size. However, halving is
* not performed when deleting entries from an iterator, as it would interfere
* with the iteration process.
```

```
*
```

```
* <p>Note that { @link #clear() } does not modify the hash table size.
* Rather, a family of { @linkplain #trim() trimming
* methods } lets you control the size of the table; this is particularly useful
* if you reuse instances of this class.
```

```
*
```

```
* <P>Iterators generated by this set will enumerate elements in the same order in which they
* have been added to the set (addition of elements already present
```

```
* in the set does not change the iteration order). Note that this order has nothing in common with the natural
* order of the keys. The order is kept by means of a doubly linked list, represented
* <i>via</i> an array of longs parallel to the table.
```

```
*
```

```
* <P>This class implements the interface of a sorted set, so to allow easy
* access of the iteration order: for instance, you can get the first element
* in iteration order with { @code first() } without having to create an
* iterator; however, this class partially violates the { @link java.util.SortedSet }
* contract because all subset methods throw an exception and { @link
* #comparator() } returns always <code>null</code>.
```

```
*
```

```
* <p>Additional methods, such as <code>addAndMoveToFirst</code>, make it easy
* to use instances of this class as a cache (e.g., with LRU policy).
```

```
*
```

```
* <P>The iterators provided by this class are type-specific { @linkplain
* java.util.ListIterator list iterators }, and can be started at any
* element
```

```
which is in the set (if the provided element
* is not in the set, a { @link NoSuchElementException } exception will be thrown).
```



\* If, however, the provided element is not the first or last element in the  
\* set, the first access to the list index will require linear time, as in the worst case  
\* the entire set must be scanned in iteration order to retrieve the positional  
\* index of the starting element. If you use just the methods of a type-specific { @link  
it.unimi.dsi.fastutil.BidirectionalIterator},  
\* however, all operations will be performed in constant time.  
\*  
\* @see Hash  
\* @see HashCommon  
\*/

```
public class OPEN_HASH_SET KEY_GENERIC extends ABSTRACT_SORTED_SET KEY_GENERIC
implements java.io.Serializable, Cloneable, Hash {
```

```
#else
```

```
#ifdef Custom
```

```
/** A type-specific hash set with a fast, small-footprint implementation whose { @linkplain
it.unimi.dsi.fastutil.Hash.Strategy hashing strategy }
* is specified at creation time.
*
* <P>Instances of this class use a hash table
to represent a set. The table is
* filled up to a specified load factor, and then doubled in size to
* accommodate new entries. If the table is emptied below one fourth
* of the load factor, it is halved in size. However, halving is
* not performed when deleting entries from an iterator, as it would interfere
* with the iteration process.
*
* <p>Note that { @link #clear()} does not modify the hash table size.
* Rather, a family of { @linkplain #trim() trimming
* methods } lets you control the size of the table; this is particularly useful
* if you reuse instances of this class.
*
* @see Hash
* @see HashCommon
*/
```

```
public class OPEN_HASH_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable, Hash {
```

```
#else
```

```
/** A type-specific hash set with with a fast, small-footprint implementation.
*
* <P>Instances of this class use a hash table to represent a set. The table is
* enlarged as needed by doubling its size when new
```

entries are created, but it is *never* made

- \* smaller (even on a { @link #clear()}). A family of { @linkplain #trim() trimming
- \* methods} lets you control the size of the table; this is particularly useful
- \* if you reuse instances of this class.
- \*
- \* @see Hash
- \* @see HashCommon
- \*/

```
public class OPEN_HASH_SET KEY_GENERIC extends ABSTRACT_SET KEY_GENERIC implements
java.io.Serializable, Cloneable, Hash {
```

```
#endif
```

```
#endif
```

```
 private static final long serialVersionUID = 0L;
 private static final boolean ASSERTS = ASSERTS_VALUE;
```

```
 /** The array of keys. */
 protected transient KEY_GENERIC_TYPE[] key;
```

```
 /** The mask for wrapping a position counter. */
 protected transient int mask;
```

```
 /** Whether this set contains the null key. */
 protected transient boolean containsNull;
```

```
#ifdef Custom
```

```
 /** The hash strategy of this custom set. */
 protected STRATEGY KEY_GENERIC strategy;
#endif
```

```
#ifdef Linked
```

```
 /** The index of the first entry in iteration order. It is valid iff { @link #size }
 is nonzero; otherwise, it contains -1. */
 protected transient int first = -1;
 /** The index of the last entry in iteration order. It is valid iff { @link #size } is nonzero; otherwise, it contains -1. */
 protected transient int last = -1;
 /** For each entry, the next and the previous entry in iteration order,
 * stored as ((prev & 0xFFFFFFFFFL) << 32) | (next & 0xFFFFFFFFFL).
 * The first entry contains predecessor -1, and the last entry
 * contains successor -1. */
 protected transient long[] link;
```

```
#endif
```

```
 /** The current table size. Note that an additional element is allocated for storing the null key. */
 protected transient int n;
```

```

/** Threshold after which we rehash. It must be the table size times { @link #f}. */
protected transient int maxFill;

/** Number of entries in the set (including the null key, if present). */
protected int size;

/** The acceptable load factor. */
protected final float f;

#ifdef Custom
/** Creates a new hash set.
 *
 * <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.
 *
 * @param expected the expected number of elements in the hash set.
 * @param f the load factor.
 * @param strategy the strategy.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_SET(final int expected, final float f, final STRATEGY KEY_GENERIC strategy) {
 this.strategy = strategy;
#else
/** Creates a new hash set.
 *
 * <p>The actual table size will be the least power of two greater than <code>expected</code>/<code>f</code>.
 *
 * @param expected the expected number of elements in the hash set.
 * @param f the load factor.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_SET(final int expected, final float f) {
#endif
 if (f <= 0 || f > 1) throw new IllegalArgumentException("Load factor must be greater than 0 and smaller than or
equal to 1");
 if (expected < 0) throw new IllegalArgumentException("The expected number of elements must
be nonnegative");

 this.f = f;

 n = arraySize(expected, f);
 mask = n - 1;
 maxFill = maxFill(n, f);
 key = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[n + 1];
#ifdef Linked
 link = new long[n + 1];
#endif

```

```
}
```

```
#ifdef Custom
```

```
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
```

```
*
```

```
* @param expected the expected number of elements in the hash set.
```

```
* @param strategy the strategy.
```

```
*/
```

```
public OPEN_HASH_SET(final int expected, final STRATEGY KEY_GENERIC strategy) {
```

```
 this(expected, DEFAULT_LOAD_FACTOR, strategy);
```

```
}
```

```
#else
```

```
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
```

```
*
```

```
* @param expected the expected number of elements in the hash set.
```

```
*/
```

```
public OPEN_HASH_SET(final int expected) {
```

```
 this(expected, DEFAULT_LOAD_FACTOR);
```

```
}
```

```
#endif
```

```
#ifdef Custom
```

```
/** Creates a new hash set with initial expected { @link Hash#DEFAULT_INITIAL_SIZE } elements
```

```
* and { @link Hash#DEFAULT_LOAD_FACTOR } as load
```

```
factor.
```

```
* @param strategy the strategy.
```

```
*/
```

```
public OPEN_HASH_SET(final STRATEGY KEY_GENERIC strategy) {
```

```
 this(DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR, strategy);
```

```
}
```

```
#else
```

```
/** Creates a new hash set with initial expected { @link Hash#DEFAULT_INITIAL_SIZE } elements
```

```
* and { @link Hash#DEFAULT_LOAD_FACTOR } as load factor.
```

```
*/
```

```
public OPEN_HASH_SET() {
```

```
 this(DEFAULT_INITIAL_SIZE, DEFAULT_LOAD_FACTOR);
```

```
}
```

```
#endif
```

```

#ifdef Custom
/** Creates a new hash set copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash set.
 * @param f the load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET(final Collection<? extends KEY_GENERIC_CLASS> c, final float f, final
STRATEGY KEY_GENERIC strategy) {
this(c.size(), f, strategy);
addAll(c);
}
#else
/** Creates a new hash set copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash set.
 * @param f the load factor.
 */

public OPEN_HASH_SET(final Collection<? extends KEY_GENERIC_CLASS> c, final float f) {
this(c.size(), f);
addAll(c);
}
#endif

```

```

#ifdef Custom
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash set.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET(final Collection<? extends KEY_GENERIC_CLASS> c, final STRATEGY
KEY_GENERIC strategy) {
this(c, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given collection.
 *
 * @param c a {@link Collection} to be copied into the new hash set.
 */

```

```

public OPEN_HASH_SET(final Collection<? extends KEY_GENERIC_CLASS> c) {
 this(c, DEFAULT_LOAD_FACTOR);
}
#endif

#ifdef Custom
/** Creates a new hash set copying a given type-specific collection.
 *
 * @param c a type-specific collection
to be copied into the new hash set.
 * @param f the load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET(final COLLECTION KEY_EXTENDS_GENERIC c, final float f, STRATEGY
KEY_GENERIC strategy) {
 this(c.size(), f, strategy);
 addAll(c);
}
#else
/** Creates a new hash set copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash set.
 * @param f the load factor.
 */

public OPEN_HASH_SET(final COLLECTION KEY_EXTENDS_GENERIC c, final float f) {
 this(c.size(), f);
 addAll(c);
}
#endif

#ifdef Custom
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash set.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET(final COLLECTION KEY_EXTENDS_GENERIC c, final STRATEGY
KEY_GENERIC strategy) {
 this(c, DEFAULT_LOAD_FACTOR,
strategy);
}

```

```

#else
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor
 * copying a given type-specific collection.
 *
 * @param c a type-specific collection to be copied into the new hash set.
 */

public OPEN_HASH_SET(final COLLECTION KEY_EXTENDS_GENERIC c) {
 this(c, DEFAULT_LOAD_FACTOR);
}
#endif

#ifdef Custom
/** Creates a new hash set using elements provided by a type-specific iterator.
 *
 * @param i a type-specific iterator whose elements will fill the set.
 * @param f the load factor.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final float f, final
STRATEGY KEY_GENERIC strategy) {
 this(DEFAULT_INITIAL_SIZE, f, strategy);
 while(i.hasNext()) add(i.NEXT_KEY());
}
#else
/** Creates a new hash set using elements provided by a type-specific iterator.
 *
 * @param i a type-specific iterator whose elements will fill the set.
 * @param f the load factor.
 *
 */

public OPEN_HASH_SET(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final float f) {
 this(DEFAULT_INITIAL_SIZE, f);
 while(i.hasNext()) add(i.NEXT_KEY());
}
#endif

#ifdef Custom
/** Creates a new hash set with {@link Hash#DEFAULT_LOAD_FACTOR} as load factor using elements
provided by a type-specific iterator.
 *
 * @param i a type-specific iterator whose elements will fill the set.
 * @param strategy the strategy.
 */

```

```

public OPEN_HASH_SET(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i, final STRATEGY
KEY_GENERIC strategy) {
 this(i, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR} as load factor using elements
provided by a type-specific iterator.
*
* @param i a type-specific iterator whose elements will fill the set.
*/

public OPEN_HASH_SET(final STD_KEY_ITERATOR KEY_EXTENDS_GENERIC i) {
 this(i, DEFAULT_LOAD_FACTOR);
}
#endif

```

```

#if #keys(primitive)

```

```

#ifdef Custom

```

```

/** Creates
a new hash set using elements provided by an iterator.
*
* @param i an iterator whose elements will fill the set.
* @param f the load factor.
* @param strategy the strategy.
*/

```

```

public OPEN_HASH_SET(final Iterator<?> i, final float f, final STRATEGY KEY_GENERIC strategy) {
 this(ITERATORS.AS_KEY_ITERATOR(i), f, strategy);
}

```

```

#else

```

```

/** Creates a new hash set using elements provided by an iterator.
*
* @param i an iterator whose elements will fill the set.
* @param f the load factor.
*/

```

```

public OPEN_HASH_SET(final Iterator<?> i, final float f) {
 this(ITERATORS.AS_KEY_ITERATOR(i), f);
}

```

```

#endif

```

```

#ifdef Custom

```

```

/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR} as load factor using elements

```



provided by an iterator.

\*

\* @param i an iterator whose elements will fill the set.

\* @param strategy the strategy.

\*/

```
public OPEN_HASH_SET(final Iterator<?> i, final STRATEGY KEY_GENERIC strategy) {
 this(ITERATORS.AS_KEY_ITERATOR(
 i), strategy);
}
```

#else

/\*\* Creates a new hash set with { @link Hash#DEFAULT\_LOAD\_FACTOR } as load factor using elements provided by an iterator.

\*

\* @param i an iterator whose elements will fill the set.

\*/

```
public OPEN_HASH_SET(final Iterator<?> i) {
 this(ITERATORS.AS_KEY_ITERATOR(i));
}
```

#endif

#endif

#ifdef Custom

/\*\* Creates a new hash set and fills it with the elements of a given array.

\*

\* @param a an array whose elements will be used to fill the set.

\* @param offset the first element to use.

\* @param length the number of elements to use.

\* @param f the load factor.

\* @param strategy the strategy.

\*/

```
public OPEN_HASH_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length, final float f, final
STRATEGY KEY_GENERIC strategy) {
 this(length < 0 ? 0 : length, f, strategy);
 ARRAYS.ensureOffsetLength(a, offset, length);
 for(int i = 0; i < length; i++) add(a[offset + i]);
}
```

#else

/\*\* Creates a new hash set and fills it with the elements of a given array.

\*

\* @param a an array whose elements will be used to fill the set.

\* @param offset the first element to use.

```

* @param length the number of elements to use.
* @param f the load factor.
*/

public OPEN_HASH_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length, final float f) {
 this(length < 0 ? 0 : length, f);
 ARRAYS.ensureOffsetLength(a, offset, length);
 for(int i = 0; i < length; i++) add(a[offset + i]);
}
#endif

#ifdef Custom
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor and fills it with the
elements of a given array.
*
* @param a an array whose elements will be used to fill the set.
* @param offset the first element to use.
* @param length the number of elements to use.
* @param strategy the strategy.
*/

public OPEN_HASH_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length, final STRATEGY
KEY_GENERIC strategy) {
 this(a, offset,
length, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor and fills it with the
elements of a given array.
*
* @param a an array whose elements will be used to fill the set.
* @param offset the first element to use.
* @param length the number of elements to use.
*/

public OPEN_HASH_SET(final KEY_GENERIC_TYPE[] a, final int offset, final int length) {
 this(a, offset, length, DEFAULT_LOAD_FACTOR);
}
#endif

#ifdef Custom
/** Creates a new hash set copying the elements of an array.
*
* @param a an array to be copied into the new hash set.
* @param f the load factor.
* @param strategy the strategy.
*/

```

```

public OPEN_HASH_SET(final KEY_GENERIC_TYPE[] a, final float f, final STRATEGY KEY_GENERIC
strategy) {
 this(a, 0, a.length, f, strategy);
}
#else
/** Creates a new hash set copying the elements of an array.
 *
 * @param a an array to be copied into the new hash set.
 *
 * @param f the load factor.
 */

public OPEN_HASH_SET(final KEY_GENERIC_TYPE[] a, final float f) {
 this(a, 0, a.length, f);
}
#endif

#ifdef Custom
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor
 * copying the elements of an array.
 *
 * @param a an array to be copied into the new hash set.
 * @param strategy the strategy.
 */

public OPEN_HASH_SET(final KEY_GENERIC_TYPE[] a, final STRATEGY KEY_GENERIC strategy) {
 this(a, DEFAULT_LOAD_FACTOR, strategy);
}
#else
/** Creates a new hash set with { @link Hash#DEFAULT_LOAD_FACTOR } as load factor
 * copying the elements of an array.
 *
 * @param a an array to be copied into the new hash set.
 */

public OPEN_HASH_SET(final KEY_GENERIC_TYPE[] a) {
 this(a, DEFAULT_LOAD_FACTOR);
}
#endif

#ifdef Custom
/** Returns the hashing strategy.
 *
 * @return the hashing strategy of this custom hash set.
 */

public STRATEGY KEY_GENERIC strategy() {

```

```

 return strategy;
}
#endif

private
int realSize() {
 return containsNull ? size - 1 : size;
}

private void ensureCapacity(final int capacity) {
 final int needed = arraySize(capacity, f);
 if (needed > n) rehash(needed);
}

private void tryCapacity(final long capacity) {
 final int needed = (int)Math.min(1 << 30, Math.max(2, HashCommon.nextPowerOfTwo((long)Math.ceil(capacity
/ f))));
 if (needed > n) rehash(needed);
}

#if #keys(primitive)
/** {@inheritDoc} */
public boolean addAll(COLLECTION c) {
 if (f <= .5) ensureCapacity(c.size()); // The resulting collection will be sized for c.size() elements
 else tryCapacity(size() + c.size()); // The resulting collection will be tentatively sized for size() + c.size() elements
 return super.addAll(c);
}
#endif

/** {@inheritDoc} */
public boolean addAll(Collection<? extends KEY_GENERIC_CLASS> c) {
 // The resulting collection will be at least c.size() big
 if (f <= .5) ensureCapacity(c.size()); // The
 resulting collection will be sized for c.size() elements
 else tryCapacity(size() + c.size()); // The resulting collection will be tentatively sized for size() + c.size() elements
 return super.addAll(c);
}

public boolean add(final KEY_GENERIC_TYPE k) {
 int pos;

 if (KEY_EQUALS_NULL(k)) {
 if (containsNull) return false;
 }
 #ifdef Linked
 pos = n;
 #endif
 containsNull = true;
}

```

```

#ifdef Custom
 key[n] = k;
#endif
}
else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;

 // The starting point.
 if (! KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) {
 if (KEY_EQUALS_NOT_NULL(curr, k)) return false;
 while(! KEY_IS_NULL(curr = key[pos = (pos + 1) & mask]))
 if (KEY_EQUALS_NOT_NULL(curr, k)) return false;
 }
 key[pos] = k;
}

#ifdef Linked
 if (size == 0) {
 first = last = pos;
 // Special case of SET_UPPER_LOWER(link[pos], -1, -1);
 link[pos] = -1L;
 }
 else {
 SET_NEXT(
link[last], pos);
 SET_UPPER_LOWER(link[pos], last, -1);
 last = pos;
 }
#endif

 if (size++ >= maxFill) rehash(arraySize(size + 1, f));
 if (ASSERTS) checkTable();
 return true;
}

#if #keyclass(Object)
/** Add a random element if not present, get the existing value if already present.
 *
 * This is equivalent to (but faster than) doing a:
 * <pre>
 * K exist = set.get(k);
 * if (exist == null) {
 * set.add(k);
 * exist = k;
 * }
 * </pre>
 */

```

```

public KEY_GENERIC_TYPE addOrGet(final KEY_GENERIC_TYPE k) {
 int pos;

 if (KEY_EQUALS_NULL(k)) {
 if (containsNull) return key [n];
#ifdef Linked
 pos = n;
#endif
 containsNull = true;
#ifdef Custom
 key [n] = k;
#endif
 }
 else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;

 // The starting point.
 if (! KEY_IS_NULL(curr = key[pos = KEY2INTHASH(k) & mask])) {
 if (KEY_EQUALS_NOT_NULL(curr, k)) return curr;
 while(! KEY_IS_NULL(
curr = key[pos = (pos + 1) & mask]))
 if (KEY_EQUALS_NOT_NULL(curr, k)) return curr;
 }
 key[pos] = k;
 }

#ifdef Linked
 if (size == 0) {
 first = last = pos;
 // Special case of SET_UPPER_LOWER(link[pos], -1, -1);
 link[pos] = -1L;
 }
 else {
 SET_NEXT(link[last], pos);
 SET_UPPER_LOWER(link[pos], last, -1);
 last = pos;
 }
#endif

 if (size++ >= maxFill) rehash(arraySize(size + 1, f));
 if (ASSERTS) checkTable();
 return k;
}
#endif

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.

```

```

*
* @param pos a starting position.
*/
protected final void shiftKeys(int pos) {
 // Shift entries with the same hash.
 int last, slot;
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;

 for(;;) {
 pos = ((last = pos) + 1) & mask;

 for(;;) {
 if (KEY_IS_NULL(curr = key[pos])) {
 key[last] = KEY_NULL;
 return;
 }
 slot
 = KEY2INTHASH(curr) & mask;
 if (last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos) break;
 pos = (pos + 1) & mask;
 }

 key[last] = curr;
#ifdef Linked
 fixPointers(pos, last);
#endif
 }
}

private boolean removeEntry(final int pos) {
 size--;
#ifdef Linked
 fixPointers(pos);
#endif
 shiftKeys(pos);
 if (size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
 return true;
}

private boolean removeNullEntry() {
 containsNull = false;
 key[n] = KEY_NULL;
 size--;
#ifdef Linked
 fixPointers(n);
#endif
 if (size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
}

```

```
return true;
}
```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```
public boolean remove(final KEY_TYPE k) {
 if (KEY_EQUALS_NULL(KEY_GENERIC_CAST k)) {
 if (containsNull) return removeNullEntry();
 return false;
 }
}
```

```
KEY_GENERIC_TYPE curr;
```

```
final KEY_GENERIC_TYPE[] key = this.key;
```

```
int pos;
```

```
// The starting
```

```
point.
```

```
if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH_CAST(k) & mask])) return false;
```

```
if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return removeEntry(pos);
```

```
while(true) {
```

```
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return false;
```

```
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return removeEntry(pos);
```

```
 }
```

```
}
```

SUPPRESS\_WARNINGS\_KEY\_UNCHECKED

```
public boolean contains(final KEY_TYPE k) {
```

```
 if (KEY_EQUALS_NULL(KEY_GENERIC_CAST k)) return containsNull;
```

```
KEY_GENERIC_TYPE curr;
```

```
final KEY_GENERIC_TYPE[] key = this.key;
```

```
int pos;
```

```
// The starting point.
```

```
if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH_CAST(k) & mask])) return false;
```

```
if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return true;
```

```
while(true) {
```

```
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return false;
```

```
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return true;
```

```
 }
```

```
}
```

```
#if #keyclass(Object)
```

```
/** Returns the element of this set that is equal to the given key,
```

```
or <code>null</code>.
```

```
* @return the element of this set that is equal to the given key, or <code>null</code>.
```

```
*/
```



```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public K get(final Object k) {
 if (KEY_EQUALS_NULL(KEY_GENERIC_CAST k)) return key[n]; // This is correct independently of the
value of containsNull and of the map being custom

```

```

 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = this.key;
 int pos;

 // The starting point.
 if (KEY_IS_NULL(curr = key[pos = KEY2INTHASH_CAST(k) & mask])) return null;
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return curr;
 // There's always an unused entry.
 while(true) {
 if (KEY_IS_NULL(curr = key[pos = (pos + 1) & mask])) return null;
 if (KEY_EQUALS_NOT_NULL_CAST(k, curr)) return curr;
 }
}
#endif

```

```

#ifdef Linked

```

```

/** Removes the first key in iteration order.
 * @return the first key.
 * @throws NoSuchElementException is this set is empty.
 */
public KEY_GENERIC_TYPE REMOVE_FIRST_KEY() {
 if (size
== 0) throw new NoSuchElementException();
 final int pos = first;
 // Abbreviated version of fixPointers(pos)
 first = GET_NEXT(link[pos]);
 if (0 <= first) {
 // Special case of SET_PREV(link[first], -1)
 link[first] |= (-1 & 0xFFFFFFFFL) << 32;
 }
 final KEY_GENERIC_TYPE k = key[pos];
 size--;
 if (KEY_EQUALS_NULL(k)) {
 containsNull = false;
 key[n] = KEY_NULL;
 }
 else shiftKeys(pos);
 if (size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
 return k;
}

```

```

/** Removes the the last key in iteration order.

```

```

* @return the last key.
* @throws NoSuchElementException is this set is empty.
*/
public KEY_GENERIC_TYPE REMOVE_LAST_KEY() {
 if (size == 0) throw new NoSuchElementException();
 final int pos = last;
 // Abbreviated version of fixPointers(pos)
 last = GET_PREV(link[pos]);
 if (0 <= last) {
 // Special case of SET_NEXT(link[last], -1)
 link[last] |= -1 & 0xFFFFFFFFFL;
 }
 final KEY_GENERIC_TYPE
 k = key[pos];
 size--;
 if (KEY_EQUALS_NULL(k)) {
 containsNull = false;
 key[n] = KEY_NULL;
 }
 else shiftKeys(pos);
 if (size < maxFill / 4 && n > DEFAULT_INITIAL_SIZE) rehash(n / 2);
 return k;
}

private void moveIndexToFirst(final int i) {
 if (size == 1 || first == i) return;
 if (last == i) {
 last = GET_PREV(link[i]);
 // Special case of SET_NEXT(link[last], -1);
 link[last] |= -1 & 0xFFFFFFFFFL;
 }
 else {
 final long linki = link[i];
 final int prev = GET_PREV(linki);
 final int next = GET_NEXT(linki);
 COPY_NEXT(link[prev], linki);
 COPY_PREV(link[next], linki);
 }
 SET_PREV(link[first], i);
 SET_UPPER_LOWER(link[i], -1, first);
 first = i;
}

private void moveIndexToLast(final int i) {
 if (size == 1 || last == i) return;
 if (first == i) {
 first = GET_NEXT(link[i]);
 // Special case of SET_PREV(link[first], -1);

```

```

 link[first] |= (-1 & 0xFFFFFFFFL) << 32;
}
else {
 final
long linki = link[i];
 final int prev = GET_PREV(linki);
 final int next = GET_NEXT(linki);
 COPY_NEXT(link[prev], linki);
 COPY_PREV(link[next], linki);
}
SET_NEXT(link[last], i);
SET_UPPER_LOWER(link[i], last, -1);
last = i;
}

/** Adds a key to the set; if the key is already present, it is moved to the first position of the iteration order.
 *
 * @param k the key.
 * @return true if the key was not present.
 */
public boolean addAndMoveToFirst(final KEY_GENERIC_TYPE k) {
 int pos;

 if (KEY_EQUALS_NULL(k)) {
 if (containsNull) {
 moveIndexToFirst(n);
 return false;
 }
 containsNull = true;
 pos = n;
 }
 else {
 // The starting point.
 final KEY_GENERIC_TYPE key[] = this.key;
 pos = KEY2INTHASH(k) & mask;

 // There's always an unused entry. TODO
 while(! KEY_IS_NULL(key[pos])) {
 if (KEY_EQUALS_NOT_NULL(k, key[pos])) {
 moveIndexToFirst(pos);
 return false;
 }

 pos
 = (pos + 1) & mask;
 }
 }
}

```

```

key[pos] = k;

if (size == 0) {
 first = last = pos;
 // Special case of SET_UPPER_LOWER(link[pos], -1, -1);
 link[pos] = -1L;
}
else {
 SET_PREV(link[first], pos);
 SET_UPPER_LOWER(link[pos], -1, first);
 first = pos;
}

if (size++ >= maxFill) rehash(arraySize(size, f));
if (ASSERTS) checkTable();
return true;
}

/** Adds a key to the set; if the key is already present, it is moved to the last position of the iteration order.
 *
 * @param k the key.
 * @return true if the key was not present.
 */
public boolean addAndMoveToLast(final KEY_GENERIC_TYPE k) {
 int pos;

 if (KEY_EQUALS_NULL(k)) {
 if (containsNull) {
 moveIndexToLast(n);
 return false;
 }
 containsNull = true;
 pos = n;
 }
 else {
 // The starting point.
 final KEY_GENERIC_TYPE key[] = this.key;
 pos = KEY2INTHASH(k) & mask;

 // There's always an unused entry.
 while(! KEY_IS_NULL(
key[pos])) {
 if (KEY_EQUALS_NOT_NULL(k, key[pos])) {
 moveIndexToLast(pos);
 return false;
 }
 }

 pos = (pos + 1) & mask;
 }
}

```

```

 }
}

key[pos] = k;

if (size == 0) {
 first = last = pos;
 // Special case of SET_UPPER_LOWER(link[pos], -1, -1);
 link[pos] = -1L;
}
else {
 SET_NEXT(link[last], pos);
 SET_UPPER_LOWER(link[pos], last, -1);
 last = pos;
}

if (size++ >= maxFill) rehash(arraySize(size, f));
if (ASSERTS) checkTable();
return true;
}

#endif

/* Removes all elements from this set.
 *
 * <P>To increase object reuse, this method does not change the table size.
 * If you want to reduce the table size, you must use { @link #trim() }.
 *
 */

public void clear() {
 if (size == 0) return;
 size = 0;
 containsNull = false;
 Arrays.fill(key, KEY_NULL);
#ifdef Linked
 first = last = -1;
#endif
}

public int size() {
 return size;
}

public boolean isEmpty() {
 return size == 0;
}

```

```

/**
A no-op for backward compatibility.
*
* @param growthFactor unused.
* @deprecated Since <code>fastutil</code> 6.1.0, hash tables are doubled when they are too full.
*/
@Deprecated
public void growthFactor(int growthFactor) {}

```

```

/** Gets the growth factor (2).
*
* @return the growth factor of this set, which is fixed (2).
* @see #growthFactor(int)
* @deprecated Since <code>fastutil</code> 6.1.0, hash tables are doubled when they are too full.
*/
@Deprecated
public int growthFactor() {
return 16;
}

```

```

#ifdef Linked

```

```

/** Modifies the { @link #link } vector so that the given entry is removed.
* This method will complete in constant time.
*
* @param i the index of an entry.
*/
protected void fixPointers(final int i) {
if (size == 0) {
first = last = -1;
return;
}
if (first == i) {
first = GET_NEXT(link[i]);
if (0 <= first) {
// Special case of SET_PREV(link[first], -1)
link[first] |= (-1 & 0xFFFFFFFFL) <<
32;
}
return;
}
if (last == i) {
last = GET_PREV(link[i]);
if (0 <= last) {

```

```

// Special case of SET_NEXT(link[last], -1)
link[last] |= -1 & 0xFFFFFFFFFL;
}
return;
}
final long linki = link[i];
final int prev = GET_PREV(linki);
final int next = GET_NEXT(linki);
COPY_NEXT(link[prev], linki);
COPY_PREV(link[next], linki);
}

/** Modifies the { @link #link } vector for a shift from s to d.
 * This method will complete in constant time.
 *
 * @param s the source position.
 * @param d the destination position.
 */
protected void fixPointers(int s, int d) {
if (size == 1) {
first = last = d;
// Special case of SET(link[d], -1, -1)
link[d] = -1L;
return;
}
if (first == s) {
first = d;
SET_PREV(link[GET_NEXT(link[s])], d);
link[d] = link[s];
return;
}
if (last == s) {
last = d;
SET_NEXT(link[GET_PREV(link[s])], d);
link[d] = link[s];
return;
}
final long
links = link[s];
final int prev = GET_PREV(links);
final int next = GET_NEXT(links);
SET_NEXT(link[prev], d);
SET_PREV(link[next], d);
link[d] = links;
}

```

```
/** Returns the first element of this set in iteration order.
```

```
*
```

```
* @return the first element in iteration order.
```

```
*/
```

```
public KEY_GENERIC_TYPE FIRST() {
 if (size == 0) throw new NoSuchElementException();
 return key[first];
}
```

```
/** Returns the last element of this set in iteration order.
```

```
*
```

```
* @return the last element in iteration order.
```

```
*/
```

```
public KEY_GENERIC_TYPE LAST() {
 if (size == 0) throw new NoSuchElementException();
 return key[last];
}
```

```
public SORTED_SET KEY_GENERIC tailSet(KEY_GENERIC_TYPE from) { throw new
UnsupportedOperationException(); }
```

```
public SORTED_SET KEY_GENERIC headSet(KEY_GENERIC_TYPE to) { throw new
UnsupportedOperationException(); }
```

```
public SORTED_SET KEY_GENERIC subSet(KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to) {
throw new UnsupportedOperationException();
}
```

```
public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }
```

```
/** A list iterator over a linked set.
```

```
*
```

```
* <P>This class provides a list iterator over a linked hash set. The constructor runs in constant time.
```

```
*/
```

```
private class SetIterator extends KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC {
```

```
 /** The entry that will be returned by the next call to { @link java.util.ListIterator#previous()} (or
<code>null</code> if no previous entry exists). */
```

```
 int prev = -1;
```

```
 /** The entry that will be returned by the next call to { @link java.util.ListIterator#next()} (or <code>null</code> if
no next entry exists). */
```

```
 int next = -1;
```

```
 /** The last entry that was returned (or -1 if we did not iterate or used { @link #remove()}). */
```

```
 int curr = -1;
```

```
 /** The current index (in the sense of a { @link java.util.ListIterator}). When -1, we do not know the current
index.*/
```

```
 int index = -1;
```



```

SetIterator() {
 next = first;
 index = 0;
}

SetIterator(KEY_GENERIC_TYPE from
) {
 if (KEY_EQUALS_NULL(from)) {
 if (OPEN_HASH_SET.this.containsNull) {
 next = GET_NEXT(link[n]);
 prev = n;
 return;
 }
 else throw new NoSuchElementException("The key " + from + " does not belong to this set.");
 }

 if (KEY_EQUALS(key[last], from)) {
 prev = last;
 index = size;
 return;
 }

 // The starting point.
 final KEY_GENERIC_TYPE key[] = OPEN_HASH_SET.this.key;
 int pos = KEY2INTHASH(from) & mask;

 // There's always an unused entry.
 while(! KEY_IS_NULL(key[pos])) {
 if (KEY_EQUALS_NOT_NULL(key[pos], from)) {
 // Note: no valid index known.
 next = GET_NEXT(link[pos]);
 prev = pos;
 return;
 }
 pos = (pos + 1) & mask;
 }
 throw new NoSuchElementException("The key " + from + " does not belong to this set.");
}

public boolean hasNext() { return next != -1; }
public boolean hasPrevious() { return prev != -1; }

public KEY_GENERIC_TYPE NEXT_KEY()
{
 if (! hasNext()) throw new NoSuchElementException();

 curr = next;
 next = GET_NEXT(link[curr]);
}

```

```

prev = curr;

if (index >= 0) index++;
if (ASSERTS) assert curr == n || ! KEY_IS_NULL(key[curr]) : "Position " + curr + " is not used";
return key[curr];
}

public KEY_GENERIC_TYPE PREV_KEY() {
if (! hasPrevious()) throw new NoSuchElementException();

curr = prev;
prev = GET_PREV(link[curr]);
next = curr;

if (index >= 0) index--;

return key[curr];
}

private final void ensureIndexKnown() {
if (index >= 0) return;
if (prev == -1) {
index = 0;
return;
}
if (next == -1) {
index = size;
return;
}
int pos = first;
index = 1;
while(pos != prev) {
pos = GET_NEXT(link[pos]);
index++;
}
}

public int nextIndex() {
ensureIndexKnown();
return index;
}

public int previousIndex() {
ensureIndexKnown();
return index - 1;
}

```

```

public void
remove() {
 ensureIndexKnown();
 if (curr == -1) throw new IllegalStateException();

 if (curr == prev) {
 /* If the last operation was a next(), we are removing an entry that preceeds
 the current index, and thus we must decrement it. */
 index--;
 prev = GET_PREV(link[curr]);
 }
 else
 next = GET_NEXT(link[curr]);

 size--;
 /* Now we manually fix the pointers. Because of our knowledge of next
 and prev, this is going to be faster than calling fixPointers(). */
 if (prev == -1) first = next;
 else
 SET_NEXT(link[prev], next);
 if (next == -1) last = prev;
 else
 SET_PREV(link[next], prev);

 int last, slot, pos = curr;
 curr = -1;

 if (pos == n) {
 OPEN_HASH_SET.this.containsNull = false;
 OPEN_HASH_SET.this.key[n] = KEY_NULL;
 }
 else {
 KEY_GENERIC_TYPE curr;
 final KEY_GENERIC_TYPE[] key = OPEN_HASH_SET.this.key;
 // We have to horribly duplicate the shiftKeys() code because we need
to update next/prev.
 for(;;) {
 pos = ((last = pos) + 1) & mask;
 for(;;) {
 if (KEY_IS_NULL(curr = key[pos])) {
 key[last] = KEY_NULL;
 return;
 }
 slot = KEY2INTHASH(curr) & mask;
 if (last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos) break;
 pos = (pos + 1) & mask;
 }
 }
 }
}

```

```

 key[last] = curr;
 if (next == pos) next = last;
 if (prev == pos) prev = last;
 fixPointers(pos, last);
}
}
}
}

```

/\*\* Returns a type-specific list iterator on the elements in this set, starting from a given element of the set.

\* Please see the class documentation for implementation details.

\*

\* @param from an element to start from.

\* @return a type-specific list iterator starting at the given element.

\* @throws IllegalArgumentException if <code>from</code> does not belong to the set.

\*/

```

public KEY_LIST_ITERATOR KEY_GENERIC iterator(KEY_GENERIC_TYPE from) {
 return
 new SetIterator(from);
}

```

```

public KEY_LIST_ITERATOR KEY_GENERIC iterator() {
 return new SetIterator();
}

```

#else

/\*\* An iterator over a hash set. \*/

```

private class SetIterator extends KEY_ABSTRACT_ITERATOR KEY_GENERIC {
 /** The index of the last entry returned, if positive or zero; initially, {@link #n}. If negative, the last
 element returned was that of index {@code - pos - 1} from the {@link #wrapped} list. */
 int pos = n;
 /** The index of the last entry that has been returned (more precisely, the value of {@link #pos} if {@link #pos} is
 positive,
 or {@link Integer#MIN_VALUE} if {@link #pos} is negative). It is -1 if either
 we did not return an entry yet, or the last returned entry has been removed. */
 int last = -1;
 /** A downward counter measuring how many entries must still be returned. */
 int c = size;
 /** A boolean telling us whether we should return the null key. */
 boolean mustReturnNull = OPEN_HASH_SET.this.containsNull;
 /** A lazily allocated
 list containing elements that have wrapped around the table because of removals. */
 ARRAY_LIST KEY_GENERIC wrapped;

 public boolean hasNext() {

```

```

return c != 0;
}

public KEY_GENERIC_TYPE NEXT_KEY() {
if (! hasNext()) throw new NoSuchElementException();
c--;
if (mustReturnNull) {
mustReturnNull = false;
last = n;
return key[n];
}
final KEY_GENERIC_TYPE key[] = OPEN_HASH_SET.this.key;
for(;;) {
if (--pos < 0) {
// We are just enumerating elements from the wrapped list.
last = Integer.MIN_VALUE;
return wrapped.GET_KEY(- pos - 1);
}
if (! KEY_IS_NULL(key[pos])) return key[last = pos];
}
}

/** Shifts left entries with the specified hash code, starting at the specified position,
 * and empties the resulting free entry.
 *
 * @param pos a starting position.
 */
private final void shiftKeys(int pos) {
// Shift entries with the same hash.
int last, slot;
KEY_GENERIC_TYPE
curr;
final KEY_GENERIC_TYPE[] key = OPEN_HASH_SET.this.key;

for(;;) {
pos = ((last = pos) + 1) & mask;

for(;;) {
if (KEY_IS_NULL(curr = key[pos])) {
key[last] = KEY_NULL;
return;
}
slot = KEY2INTHASH(curr) & mask;
if (last <= pos ? last >= slot || slot > pos : last >= slot && slot > pos) break;
pos = (pos + 1) & mask;
}
}
}

```

```

if (pos < last) { // Wrapped entry.
 if (wrapped == null) wrapped = new ARRAY_LIST KEY_GENERIC(2);
 wrapped.add(key[pos]);
}

key[last] = curr;
}
}

public void remove() {
 if (last == -1) throw new IllegalStateException();
 if (last == n) {
 OPEN_HASH_SET.this.containsNull = false;
 OPEN_HASH_SET.this.key[n] = KEY_NULL;
 }
 else if (pos >= 0) shiftKeys(last);
 else {
 // We're removing wrapped entries.
 #if #keys(reference)
 OPEN_HASH_SET.this.remove(wrapped.set(- pos - 1, null));
 #else
 OPEN_HASH_SET.this.remove(
 wrapped.GET_KEY(- pos - 1));
 #endif
 last = -1; // Note that we must not decrement size
 return;
 }

 size--;
 last = -1; // You can no longer remove this entry.
 if (ASSERTS) checkTable();
}

public KEY_ITERATOR KEY_GENERIC iterator() {
 return new SetIterator();
}

#endif

/** A no-op for backward compatibility. The kind of tables implemented by
 * this class never need rehashing.
 *
 * <P>If you need to reduce the table size to fit exactly
 * this set, use { @link #trim() }.
 */

```

```
* @return true.
* @see #trim()
* @deprecated A no-op.
*/
```

@Deprecated

```
public boolean rehash() {
 return true;
}
```

```
/** Rehashes this set, making the table as small as possible.
```

```
*
* <P>This method rehashes the table to the smallest size satisfying the
* load factor. It can be used when the set will not be changed anymore, so
* to optimize access speed and size.
*
* <P>If the table size is already the minimum possible, this method
* does nothing.
```

```
*
* @return true if there was enough memory to trim the set.
* @see #trim(int)
*/
```

```
public boolean trim() {
 final int l = arraySize(size, f);
 if (l >= n || size > maxFill(l, f)) return true;
 try {
 rehash(l);
 }
 catch(OutOfMemoryError cantDoIt) { return false; }
 return true;
}
```

```
/** Rehashes this set if the table is too large.
```

```
*
* <P>Let <var>N</var> be the smallest table size that can hold
* max(n, {@link #size()}) entries, still satisfying the load factor. If the current
* table size is smaller than or equal to <var>N</var>, this method does
* nothing. Otherwise, it rehashes this set in a table of size
* <var>N</var>.
*
* <P>This method is useful when reusing sets. { @linkplain #clear() Clearing a
* set } leaves the table size untouched. If you are reusing a set
* many times, you can call this method with a typical
* size to avoid keeping around a very large table just
```

```

* because of a few large transient sets.
*

* @param n the threshold for the trimming.
* @return true if there was enough memory to trim the set.
* @see #trim()
*/

public boolean trim(final int n) {
 final int l = HashCommon.nextPowerOfTwo((int)Math.ceil(n / f));
 if (l >= n || size > maxFill(l, f)) return true;
 try {
 rehash(l);
 }
 catch(OutOfMemoryError cantDoIt) { return false; }
 return true;
}

/** Rehashes the set.
 *
 * <P>This method implements the basic rehashing strategy, and may be
 * overridden by subclasses implementing different rehashing strategies (e.g.,
 * disk-based rehashing). However, you should not override this method
 * unless you understand the internal workings of this class.
 *
 * @param newN the new size
 */

SUPPRESS_WARNINGS_KEY_UNCHECKED
protected void rehash(final int newN) {
 final KEY_GENERIC_TYPE key[] = this.key;

 final int mask = newN - 1; // Note that this is used by the hashing macro
 final KEY_GENERIC_TYPE newKey[] = KEY_GENERIC_ARRAY_CAST new
 KEY_TYPE[newN + 1];

#ifdef Linked
 int i = first, prev = -1, newPrev = -1, t, pos;
 final long link[] = this.link;
 final long newLink[] = new long[newN + 1];
 first = -1;

 for(int j = size; j-- != 0;) {
 if (KEY_EQUALS_NULL(key[i])) pos = newN;
 else {
 pos = KEY2INTHASH(key[i]) & mask;
 while (! KEY_IS_NULL(newKey[pos])) pos = (pos + 1) & mask;
 }

```



```

newKey[pos] = key[i];

if (prev != -1) {
 SET_NEXT(newLink[newPrev], pos);
 SET_PREV(newLink[pos], newPrev);
 newPrev = pos;
}
else {
 newPrev = first = pos;
 // Special case of SET(newLink[pos], -1, -1);
 newLink[pos] = -1L;
}

t = i;
i = GET_NEXT(link[i]);
prev = t;
}

this.link = newLink;
this.last = newPrev;
if (newPrev != -1)
 // Special case of SET_NEXT(newLink[newPrev], -1);
 newLink[newPrev] |= -1 & 0xFFFFFFFFL;
#else
int i = n, pos;

for(int j = realSize(); j-- != 0;) {
 while(KEY_IS_NULL(key[--i
]));
 if (! KEY_IS_NULL(newKey[pos = KEY2INTHASH(key[i]) & mask]))
 while (! KEY_IS_NULL(newKey[pos = (pos + 1) & mask]));
 newKey[pos] = key[i];
}
#endif

n = newN;
this.mask = mask;
maxFill = maxFill(n, f);
this.key = newKey;
}

/** Returns a deep copy of this set.
 *
 * <P>This method performs a deep copy of this hash set; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 */

```

```

* @return a deep copy of this set.
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public OPEN_HASH_SET KEY_GENERIC clone() {
 OPEN_HASH_SET KEY_GENERIC c;
 try {
 c = (OPEN_HASH_SET KEY_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }
 c.key = key.clone();
 c.containsNull = containsNull;
#ifdef Linked
 c.link = link.clone();
#endif
#ifdef Custom
 c.strategy = strategy;
#endif
 return c;
}

/** Returns a hash code for this set.
 *
 * This method overrides the generic method provided by the superclass.
 * Since <code>equals()</code> is not overridden, it is important
 * that the value returned by this method is the same value as
 * the one returned by the overridden method.
 *
 * @return a hash code for this set.
 */

public int hashCode() {
 int h = 0;
 for(int j = realSize(), i = 0; j-- != 0;) {
 while(KEY_IS_NULL(key[i])) i++;
#ifdef #keys(reference)
 if (this != key[i])
#endif
 h += KEY2JAVAHASH_NOT_NULL(key[i]);
 i++;
 }

 // Zero / null have hash zero.
 return h;
}

```

```
}
```

```
private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 final KEY_ITERATOR KEY_GENERIC i = iterator();
 s.defaultWriteObject();
 for(int j = size; j-- != 0;) s.WRITE_KEY(i.NEXT_KEY());
}
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
```

```
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
```

```
 n = arraySize(size,
 f);
```

```
 maxFill = maxFill(n, f);
```

```
 mask = n - 1;
```

```
 final KEY_GENERIC_TYPE key[] = this.key = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[n + 1];
```

```
#ifdef Linked
```

```
 final long link[] = this.link = new long[n + 1];
```

```
 int prev = -1;
```

```
 first = last = -1;
```

```
#endif
```

```
 KEY_GENERIC_TYPE k;
```

```
 for(int i = size, pos; i-- != 0;) {
```

```
 k = KEY_GENERIC_CAST s.READ_KEY();
```

```
 if (KEY_EQUALS_NULL(k)) {
```

```
 pos = n;
```

```
 containsNull = true;
```

```
 }
```

```
 else {
```

```
 if (! KEY_IS_NULL(key[pos = KEY2INTHASH(k) & mask]))
```

```
 while (! KEY_IS_NULL(key[pos = (pos + 1) & mask]));
```

```
 }
```

```
 key[pos] = k;
```

```
#ifdef Linked
```

```
 if (first != -1) {
```

```
 SET_NEXT(link[prev], pos);
```

```
 SET_PREV(link[pos], prev);
```

```
 prev = pos;
```

```

 }
 else {
 prev = first = pos;
 // Special case of SET_PREV(newLink[pos], -1);
 link[pos] |= (-1L & 0xFFFFFFFFL) << 32;
 }
#endif
}

#ifdef Linked
 last = prev;
 if (prev != -1)
 // Special case of SET_NEXT(link[prev], -1);
 link[prev
] |= -1 & 0xFFFFFFFFL;
#endif

 if (ASSERTS) checkTable();
}

#ifdef ASSERTS_CODE
private void checkTable() {
 assert (n & -n) == n : "Table length is not a power of two: " + n;
 assert n == key.length - 1;
 int n = key.length - 1;
 while(n-- != 0)
 if (! KEY_IS_NULL(key[n]) && ! contains(key[n]))
 throw new AssertionError("Hash table has key " + key[n] + " marked as occupied, but the key does not belong to
the table");

 #if #keys(primitive)
 java.util.HashSet<KEY_GENERIC_CLASS> s = new java.util.HashSet<KEY_GENERIC_CLASS> ();
 #else
 java.util.HashSet<Object> s = new java.util.HashSet<Object>();
 #endif

 for(int i = key.length - 1; i-- != 0;)
 if (! KEY_IS_NULL(key[i]) && ! s.add(key[i])) throw new AssertionError("Key " + key[i] + " appears
twice at position " + i);

 #ifdef Linked
 KEY_LIST_ITERATOR KEY_GENERIC i = iterator();
 KEY_GENERIC_TYPE k;
 n = size();
 while(n-- != 0)
 if (! contains(k = i.NEXT_KEY()))
 throw

```

```

new AssertionError("Linked hash table forward enumerates key " + k + ", but the key does not belong to the table"
);

if (i.hasNext()) throw new AssertionError("Forward iterator not exhausted");

n = size();
if (n > 0) {
 i = iterator(LAST());
 while(n-- != 0)
 if (! contains(k = i.PREV_KEY()))
 throw new AssertionError("Linked hash table backward enumerates key " + k + ", but the key does not belong to
the table");

 if (i.hasPrevious()) throw new AssertionError("Previous iterator not exhausted");
}
#endif
}
#else
private void checkTable() {}
#endif

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)r.nextInt();
#elif #keys(primitive)
 return r.NEXT_KEY();
#elif #keyclass(Object)
#ifdef Custom
 int i = r.nextInt(3);
 byte
a[] = new byte[i];
 while(i-- != 0) a[i] = (byte)r.nextInt();
 return a;
#else
 return Integer.toBinaryString(r.nextInt());
#endif
#else
 return new java.io.Serializable() {};
#endif
}

private static final class ArrayComparator implements java.util.Comparator {

```

```

public int compare(Object a, Object b) {
 byte[] aa = (byte[])a;
 byte[] bb = (byte[])b;
 int length = Math.min(aa.length, bb.length);
 for(int i = 0; i < length; i++) {
 if (aa[i] < bb[i]) return -1;
 if (aa[i] > bb[i]) return 1;
 }
 return aa.length == bb.length ? 0 : (aa.length < bb.length ? -1 : 1);
}
}

```

```

private static final class MockSet extends java.util.TreeSet {
 private java.util.List list = new java.util.ArrayList();

```

```

 public MockSet(java.util.Comparator c) { super(c); }

```

```

 public boolean add(Object k) {
 if (! contains(k)) list.add(k);
 return super.add(k);
 }

```

```

 public boolean addAll(Collection c) {
 java.util.Iterator i = c.iterator();
 boolean
result = false;
 while(i.hasNext()) result |= add(i.next());
 return result;
 }

```

```

 public boolean removeAll(Collection c) {
 java.util.Iterator i = c.iterator();
 boolean result = false;
 while(i.hasNext()) result |= remove(i.next());
 return result;
 }

```

```

 public boolean remove(Object k) {
 if (contains(k)) {
 int i = list.size();
 while(i-- != 0) if (comparator().compare(list.get(i), k) == 0) {
 list.remove(i);
 break;
 }
 }
 return super.remove(k);
 }
}

```

```

private void justRemove(Object k) { super.remove(k); }

public java.util.Iterator iterator() {
return new java.util.Iterator() {
 final java.util.Iterator iterator = list.iterator();
 Object curr;
 public Object next() { return curr = iterator.next(); }
 public boolean hasNext() { return iterator.hasNext(); }
 public void remove() {
 justRemove(curr);
 iterator.remove();
 }
};
}
}

private static
java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition fp = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, fp).toString();
}

private static void speedTest(int n, float f, boolean comp) {
#ifdef Custom
 int i, j;
 OPEN_HASH_SET m;
#elifdef Linked
 java.util.LinkedHashSet t;
#else
 java.util.HashSet t;
#endif

 KEY_TYPE k[] = new KEY_TYPE[n];
 KEY_TYPE nk[] = new KEY_TYPE[n];
 long ns;

 for(i = 0; i < n; i++) {
 k[i] = genKey();
 nk[i] = genKey();
 }

 double totAdd = 0, totYes = 0, totNo = 0, totIter = 0, totRemYes = 0, totRemNo = 0, d;

 if (comp) { for(j = 0; j < 20; j++) {

```

```

#ifdef Linked
 t = new java.util.LinkedHashSet(16);
#else
 t = new java.util.HashSet(16);
#endif

 /* We add pairs to t. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) t.add(KEY2OBJ(k[i]));
 d
= (System.nanoTime() - ns) / (double)n;
 if (j > 2) totAdd += d;
 System.out.print("Add: " + format(d) + "ns ");

 /* We check for pairs in t. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) t.contains(KEY2OBJ(k[i]));
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totYes += d;
 System.out.print("Yes: " + format(d) + "ns ");

 /* We check for pairs not in t. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) t.contains(KEY2OBJ(nk[i]));
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totNo += d;
 System.out.print("No: " + format(d) + "ns ");

 /* We iterate on t. */
 ns = System.nanoTime();
 for(java.util.Iterator it = t.iterator(); it.hasNext(); it.next());
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totIter += d;
 System.out.print("Iter: " + format(d) + "ns ");

 // Too expensive in the linked case
#ifdef Linked
 /* We delete pairs not in t.
 */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) t.remove(KEY2OBJ(nk[i]));
 d = (System.nanoTime() - ns) / (double)n;
 if (j > 2) totRemNo += d;
 System.out.print("RemNo: " + format(d) + "ns ");

 /* We delete pairs in t. */
 ns = System.nanoTime();
 for(i = 0; i < n; i++) t.remove(KEY2OBJ(k[i]));

```



```

d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totRemYes += d;
System.out.print("RemYes: " + format(d) + "ns ");
#endif

System.out.println();
}

System.out.println();
System.out.println("java.util Add: " + format(totAdd/(j-3)) + "ns Yes: " + format(totYes/(j-3)) + "ns No: " +
format(totNo/(j-3)) + "ns Iter: " + format(totIter/(j-3)) + "ns RemNo: " + format(totRemNo/(j-3)) + "ns RemYes:
" + format(totRemYes/(j-3)) + "ns");

System.out.println();

totAdd = totYes = totNo = totIter = totRemYes = totRemNo = 0;
}

for(j = 0; j < 20; j++) {

m = new OPEN_HASH_SET(16, f);

/* We add
pairs to m. */
ns = System.nanoTime();
for(i = 0; i < n; i++) m.add(k[i]);
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totAdd += d;
System.out.print("Add: " + format(d) + "ns ");

/* We check for pairs in m. */
ns = System.nanoTime();
for(i = 0; i < n; i++) m.contains(k[i]);
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + "ns ");

/* We check for pairs not in m. */
ns = System.nanoTime();
for(i = 0; i < n; i++) m.contains(nk[i]);
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totNo += d;
System.out.print("No: " + format(d) + "ns ");

/* We iterate on m. */
ns = System.nanoTime();
for(KEY_ITERATOR it = (KEY_ITERATOR)m.iterator(); it.hasNext(); it.NEXT_KEY());
d = (System.nanoTime() - ns) / (double)n;

```

```

if (j > 2) totIter += d;
System.out.print("Iter: " + format(d) + "ns ");

// Too expensive
in the linked case
#ifdef Linked
/* We delete pairs not in m. */
ns = System.nanoTime();
for(i = 0; i < n; i++) m.remove(nk[i]);
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totRemNo += d;
System.out.print("RemNo: " + format(d) + "ns ");

/* We delete pairs in m. */
ns = System.nanoTime();
for(i = 0; i < n; i++) m.remove(k[i]);
d = (System.nanoTime() - ns) / (double)n;
if (j > 2) totRemYes += d;
System.out.print("RemYes: " + format(d) + "ns ");
#endif

System.out.println();
}

System.out.println();
System.out.println("fastutil Add: " + format(totAdd/(j-3)) + "ns Yes: " + format(totYes/(j-3)) + "ns No: " +
format(totNo/(j-3)) + "ns Iter: " + format(totIter/(j-3)) + "ns RemNo: " + format(totRemNo/(j-3)) + "ns RemYes:
" + format(totRemYes/(j-3)) + "ns");

System.out.println();
#endif
}

private static void fatal(String msg) {
System.out.println(msg);
System.exit(
1);
}

private static void ensure(boolean cond, String msg) {
if (cond) return;
fatal(msg);
}

private static void printProbes(OPEN_HASH_SET m) {

```

```

long totProbes = 0;
double totSquareProbes = 0;
int maxProbes = 0;
final double f = (double)m.size / m.n;
for(int i = 0, c = 0; i < m.n; i++) {
 if (! KEY_IS_NULL(m.key[i])) c++;
 else {
 if (c != 0) {
 final long p = (c + 1) * (c + 2) / 2;
 totProbes += p;
 totSquareProbes += (double)p * p;
 }
 maxProbes = Math.max(c, maxProbes);
 c = 0;
 totProbes++;
 totSquareProbes++;
 }
}

final double expected = (double)totProbes / m.n;
System.err.println("Expected probes: " + (
 3 * Math.sqrt(3) * (f / ((1 - f) * (1 - f))) + 4 / (9 * f) - 1
) + "; actual: " + expected + "; stddev: " + Math.sqrt(totSquareProbes / m.n - expected * expected) + "; max
probes: " + maxProbes);
}

private static void test(int n, float f) {
 #if !defined(Custom)
 || #keys(reference)

 int c;
 #ifdef Custom
 OPEN_HASH_SET m = new OPEN_HASH_SET(Hash.DEFAULT_INITIAL_SIZE, f,
it.unimi.dsi.fastutil.bytes.ByteArrays.HASH_STRATEGY);
 #else
 OPEN_HASH_SET m = new OPEN_HASH_SET(Hash.DEFAULT_INITIAL_SIZE, f);
 #endif
 #ifdef Linked
 #ifdef Custom
 java.util.Set t = new MockSet(new ArrayComparator());
 #else
 java.util.Set t = new java.util.LinkedHashSet();
 #endif
 #else
 #ifdef Custom
 java.util.Set t = new java.util.TreeSet(new ArrayComparator());
 #else

```

```

 java.util.Set t = new java.util.HashSet();
#endif
#endif

/* First of all, we fill t with random data. */

for(int i=0; i<f * n; i++) t.add(KEY2OBJ(genKey()));

/* Now we add to m the same data */

m.addAll(t);

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after insertion");
printProbes(m);

/* Now we check that m actually holds that data. */

for(java.util.Iterator
i=t.iterator(); i.hasNext();) {
 Object e = i.next();
 if (!m.contains(e)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after insertion (iterating on t)");
 System.exit(1);
 }
}

/* Now we check that m actually holds that data, but iterating on m. */

c = 0;
for(java.util.Iterator i=m.iterator(); i.hasNext();) {
 Object e = i.next();
 c++;
 if (!t.contains(e)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after insertion (iterating on m)");
 System.exit(1);
 }
}

if (c != t.size()) {
 System.out.println("Error (" + seed + "): m has only " + c + " keys instead of " + t.size() + " after insertion (iterating
on m)");
 System.exit(1);
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {

```

```

KEY_TYPE T = genKey();
if (m.contains(T) != t.contains(KEY2OBJ(T)))
{
 System.out.println("Error (" + seed + "): divergence in keys between t and m (polymorphic method)");
 System.exit(1);
}
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 if (m.contains(KEY2OBJ(T)) != t.contains(KEY2OBJ(T))) {
 System.out.println("Error (" + seed + "): divergence between t and m (standard method)");
 System.exit(1);
 }
}

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();
 if (m.add(KEY2OBJ(T)) != t.add(KEY2OBJ(T))) {
 System.out.println("Error (" + seed + "): divergence in add() between t and m");
 System.exit(1);
 }
 T = genKey();
 if (m.remove(KEY2OBJ(T)) != t.remove(KEY2OBJ(T))) {
 System.out.println("Error (" + seed + "): divergence in remove() between t and m");
 System.exit(
1);
 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after removal");

/* Now we check that m actually holds that data. */

for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 Object e = i.next();
 if (!m.contains(e)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after removal (iterating on t)");
 System.exit(1);
 }
}
}

```

```

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext();) {
 Object e = i.next();
 if (!t.contains(e)) {
 System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after removal (iterating on m)");
 System.exit(1);
 }
}

printProbes(m);

/* Now we make m into an array, make it again a set and check it is OK. */
KEY_TYPE a[] = m.TO_KEY_ARRAY();

#ifdef
Custom
if (!new OPEN_HASH_SET(a, m.strategy()).equals(m))
 System.out.println("Error (" + seed + "): toArray() output (or array-based constructor) is not OK");
#else
if (!new OPEN_HASH_SET(a).equals(m))
 System.out.println("Error (" + seed + "): toArray() output (or array-based constructor) is not OK");
#endif

/* Now we check cloning. */

ensure(m.equals(((OPEN_HASH_SET)m).clone()), "Error (" + seed + "): m does not equal m.clone()");
ensure(((OPEN_HASH_SET)m).clone().equals(m), "Error (" + seed + "): m.clone() does not equal m");

int h = m.hashCode();

/* Now we save and read m. */

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m
 = (OPEN_HASH_SET)ois.readObject();
 ois.close();
}

```

```

ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit(1);
}

#if !#keyclass(Reference)
if (m.hashCode() != h) System.out.println("Error (" + seed + "): hashCode() changed after save/read");

printProbes(m);

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext();) {
Object e = i.next();
if (!t.contains(e)) {
System.out.println("Error (" + seed + "): m and t differ on a key (" + e + ") after save/read");
System.exit(1);
}
}
#else
m.clear();
m.addAll(t);
#endif

/* Now we put and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
KEY_TYPE T = genKey();
if (m.add(KEY2OBJ(T)) != t.add(KEY2OBJ(T))) {
System.out.println("Error (" + seed + "): divergence in add() between t and m after save/read");
System.exit(1
);
}
T = genKey();
if (m.remove(KEY2OBJ(T)) != t.remove(KEY2OBJ(T))) {
System.out.println("Error (" + seed + "): divergence in remove() between t and m after save/read");
System.exit(1);
}
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after post-save/read removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after post-save/read removal");

#endif Linked

```

```

/* Now we play with iterators, but only in the linked case. */

{
java.util.ListIterator i, j;
Object I, J;
i = (java.util.ListIterator)m.iterator();
j = new java.util.LinkedList(t).listIterator();

for(int k = 0; k < 2*n; k++) {
ensure(i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext()");
ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious()");

if (r.nextFloat() < .8 && i.hasNext()) {
#ifdef Custom
ensure(m.strategy().equals(i.next(),
J = j.next()), "Error (" + seed + "): divergence in next()");
#else
ensure(i.next().equals(J = j.next()), "Error (" + seed + "): divergence in next()");
#endif
if (r.nextFloat() < 0.5) {
i.remove();
j.remove();
t.remove(J);
}
}
else if (r.nextFloat() < .2 && i.hasPrevious()) {
#ifdef Custom
ensure(m.strategy().equals(i.previous(), J = j.previous()), "Error (" + seed + "): divergence in previous()");
#else
ensure(i.previous().equals(J = j.previous()), "Error (" + seed + "): divergence in previous()");
#endif
if (r.nextFloat() < 0.5) {
i.remove();
j.remove();
t.remove(J);
}
}

ensure(i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex()");
ensure(i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex()");

}

}

if (t.size() > 0) {
java.util.ListIterator i, j;

```



```

Object J;
j = new java.util.LinkedList(
t).listIterator();
int e = r.nextInt(t.size());
Object from;
do from = j.next(); while(e-- != 0);

i = (java.util.ListIterator)m.iterator(KEY_OBJ2TYPE(from));

for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + seed + "): divergence in hasNext() (iterator with starting point " +
from + ")");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + seed + "): divergence in hasPrevious() (iterator with starting
point " + from + ")");

 if (r.nextFloat() < .8 && i.hasNext()) {
#ifdef Custom
 ensure(m.strategy().equals(i.next(), J = j.next()), "Error (" + seed + "): divergence in next() (iterator with starting
point " + from + ")");
#else
 ensure(i.next().equals(J = j.next()), "Error (" + seed + "): divergence in next() (iterator with starting point " + from
+ ")");
#endif
 }

 if (r.nextFloat() < 0.5) {
 i.remove();
 j.remove();
 t.remove(J);
 }
 else if
(r.nextFloat() < .2 && i.hasPrevious()) {
#ifdef Custom
 ensure(m.strategy().equals(i.previous(), J = j.previous()), "Error (" + seed + "): divergence in previous() (iterator
with starting point " + from + ")");
#else
 ensure(i.previous().equals(J = j.previous()), "Error (" + seed + "): divergence in previous() (iterator with starting
point " + from + ")");
#endif
 }

 if (r.nextFloat() < 0.5) {
 i.remove();
 j.remove();
 t.remove(J);
 }
}

ensure(i.nextIndex() == j.nextIndex(), "Error (" + seed + "): divergence in nextIndex() (iterator with starting point "

```

```

+ from + ")");
 ensure(i.previousIndex() == j.previousIndex(), "Error (" + seed + "): divergence in previousIndex() (iterator with
starting point " + from + ")");

 }

}

/* Now we check that m actually holds that data. */

ensure(m.equals(t), "Error (" + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + seed + "): ! t.equals(m)
after iteration");

#endif

/* Now we take out of m everything, and check that it is empty. */

for(java.util.Iterator i=m.iterator(); i.hasNext();) { i.next(); i.remove();}

if (!m.isEmpty()) {
 System.out.println("Error (" + seed + "): m is not empty (as it should be)");
 System.exit(1);
}

#if #keyclass(Integer) || #keyclass(Long)
 m = new OPEN_HASH_SET(n, f);
 t.clear();
 int x;

/* Now we torture-test the hash table. This part is implemented only for integers and longs. */

 int p = m.key.length - 1;

 for(int i=0; i<p; i++) {
 for (int j=0; j<20; j++) {
 m.add(i+(r.nextInt() % 10)*p);
 m.remove(i+(r.nextInt() % 10)*p);
 }

 for (int j=-10; j<10; j++) m.remove(i+j*p);
 }

 t.addAll(m);

/* Now all table entries are REMOVED. */

```

```

int k = 0;
for(int i=0; i<(p*f)/10; i++) {
 for (int j=0; j<10; j++) {
 k++;
 x = i+(r.nextInt() % 10)*p;
 if (m.add(x) != t.add(KEY2OBJ(x)))
 System.out.println("Error (" + seed + "): m and
t differ on a key during torture-test insertion.");
 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test insertion");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test insertion");

for(int i=0; i<(p*f)/10; i++) {
 for (int j=0; j<10; j++) {
 x = i+(r.nextInt() % 10)*p;
 if (m.remove(x) != t.remove(KEY2OBJ(x)))
 System.out.println("Error (" + seed + "): m and t differ on a key during torture-test removal.");
 }
}

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after torture-test removal");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after torture-test removal");

if (!m.equals(m.clone())) System.out.println("Error (" + seed + "): !m.equals(m.clone()) after torture-test removal");
if (!((OPEN_HASH_SET)m.clone()).equals(m)) System.out.println("Error (" + seed + "): !m.clone().equals(m) after
torture-test removal");

m.rehash();

if
(!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after rehash()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after rehash()");

m.trim();

if (!m.equals(t)) System.out.println("Error (" + seed + "): !m.equals(t) after trim()");
if (!t.equals(m)) System.out.println("Error (" + seed + "): !t.equals(m) after trim()");
#endif

System.out.println("Test OK");
return;
#endif
}

```

```

public static void main(String args[]) {
 float f = Hash.DEFAULT_LOAD_FACTOR;
 int n = Integer.parseInt(args[1]);
 if (args.length>2) f = Float.parseFloat(args[2]);
 if (args.length > 3) r = new java.util.Random(seed = Long.parseLong(args[3]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, f, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n, f);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " +
seed);
 }
}

#endif

}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/OpenCustomHashSet.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/drv/LinkedOpenCustomHashSet.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/OpenHashSet.drv
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/LinkedOpenHashSet.drv

```

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

```

/*
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*/

```

```

package PACKAGE;

```

```

import java.util.SortedSet;

```

```

import java.util.NoSuchElementException;
#if #keys(reference)
import java.util.Comparator;
#endif

/** A class providing static methods and objects that do useful things with type-specific sorted sets.
 *
 * @see java.util.Collections
 */

public class SORTED_SETS {

 private
 SORTED_SETS() {}

 /** An immutable class representing the empty sorted set and implementing a type-specific set interface.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific sorted set.
 */

 public static class EmptySet KEY_GENERIC extends SETS.EmptySet KEY_GENERIC implements
 SORTED_SET KEY_GENERIC, java.io.Serializable, Cloneable {
 private static final long serialVersionUID = -7046029254386353129L;

 protected EmptySet() {}

 public boolean remove(KEY_TYPE ok) { throw new UnsupportedOperationException(); }

 @Deprecated
 public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }

 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator(KEY_GENERIC_TYPE from) { return
 ITERATORS.EMPTY_ITERATOR; }

 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public SORTED_SET KEY_GENERIC subSet(KEY_GENERIC_TYPE from, KEY_GENERIC_TYPE to) {
 return EMPTY_SET; }

 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public
 SORTED_SET KEY_GENERIC headSet(KEY_GENERIC_TYPE from) { return EMPTY_SET; }

 SUPPRESS_WARNINGS_KEY_UNCHECKED
 public SORTED_SET KEY_GENERIC tailSet(KEY_GENERIC_TYPE to) { return EMPTY_SET; }

```

```

public KEY_GENERIC_TYPE FIRST() { throw new NoSuchElementException(); }
public KEY_GENERIC_TYPE LAST() { throw new NoSuchElementException(); }

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return null; }

#if #keys(primitive)
public SORTED_SET KEY_GENERIC subSet(KEY_GENERIC_CLASS from, KEY_GENERIC_CLASS to) {
return EMPTY_SET; }
public SORTED_SET KEY_GENERIC headSet(KEY_GENERIC_CLASS from) { return EMPTY_SET; }
public SORTED_SET KEY_GENERIC tailSet(KEY_GENERIC_CLASS to) { return EMPTY_SET; }

public KEY_GENERIC_CLASS first() { throw new NoSuchElementException(); }
public KEY_GENERIC_CLASS last() { throw new NoSuchElementException(); }
#endif

public Object clone() { return EMPTY_SET; }

private Object readResolve() { return EMPTY_SET; }
}

/**
An empty sorted set (immutable). It is serializable and cloneable.
*
* <P>The class of this objects represent an abstract empty set
* that is a subset of a (sorted) type-specific set.
*/

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final EmptySet EMPTY_SET = new EmptySet();

/** A class representing a singleton sorted set.
*
* <P>This class may be useful to implement your own in case you subclass
* a type-specific sorted set.
*/

public static class Singleton KEY_GENERIC extends SETS.Singleton KEY_GENERIC implements SORTED_SET
KEY_GENERIC, java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

final KEY_COMPARATOR KEY_SUPER_GENERIC comparator;

private Singleton(final KEY_GENERIC_TYPE element, final KEY_COMPARATOR KEY_SUPER_GENERIC
comparator) {
super(element);
this.comparator = comparator;
}

```

```

}

private Singleton(final KEY_GENERIC_TYPE element) {
 this(element, null);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
final
int compare(final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2) {
 return comparator == null ? KEY_CMP(k1, k2) : comparator.compare(k1, k2);
}

@Deprecated
public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() {
 return iterator();
}

public KEY_BIDI_ITERATOR KEY_GENERIC iterator(KEY_GENERIC_TYPE from) {
 KEY_BIDI_ITERATOR KEY_GENERIC i = iterator();
 if (compare(element, from) <= 0) i.next();
 return i;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return comparator; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public SORTED_SET KEY_GENERIC subSet(final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to) { if (compare(from, element) <= 0 && compare(element, to) < 0) return this; return EMPTY_SET; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_TYPE to) { if (compare(element, to) < 0
) return this; return EMPTY_SET; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public
SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_TYPE from) { if (compare(from, element) <= 0
) return this; return EMPTY_SET; }

public KEY_GENERIC_TYPE FIRST() { return element; }
public KEY_GENERIC_TYPE LAST() { return element; }

#if #keys(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS first() { return KEY2OBJ(element); }
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */

```

```

@Deprecated
public KEY_CLASS last() { return KEY2OBJ(element); }

/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_SET KEY_GENERIC subSet(final KEY_CLASS from, final KEY_CLASS to) { return subSet(
KEY_CLASS2TYPE(from), KEY_CLASS2TYPE(to)); }
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public
SORTED_SET KEY_GENERIC headSet(final KEY_CLASS to) { return headSet(KEY_CLASS2TYPE(to)); }
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_SET KEY_GENERIC tailSet(final KEY_CLASS from) { return tailSet(KEY_CLASS2TYPE(
from)); }
#endif
}

/** Returns a type-specific immutable sorted set containing only the specified element. The returned sorted set is
serializable and cloneable.
 *
 * @param element the only element of the returned sorted set.
 * @return a type-specific immutable sorted set containing just <code>element</code>.
 */

public static KEY_GENERIC SORTED_SET KEY_GENERIC singleton(final KEY_GENERIC_TYPE element) {
return new Singleton KEY_GENERIC(element);
}

/** Returns a type-specific immutable sorted set containing only the specified element, and using a specified
comparator. The returned sorted set is serializable and cloneable.
 *
 * @param element the only element
of the returned sorted set.
 * @param comparator the comparator to use in the returned sorted set.
 * @return a type-specific immutable sorted set containing just <code>element</code>.
 */

public static KEY_GENERIC SORTED_SET KEY_GENERIC singleton(final KEY_GENERIC_TYPE element,
final KEY_COMPARATOR KEY_SUPER_GENERIC comparator) {
return new Singleton KEY_GENERIC(element, comparator);
}

```



```
#if #keys(primitive)
```

```
/** Returns a type-specific immutable sorted set containing only the specified element. The returned sorted set is serializable and cloneable.
```

```
*
```

```
* @param element the only element of the returned sorted set.
```

```
* @return a type-specific immutable sorted set containing just <code>element</code>.
```

```
*/
```

```
public static KEY_GENERIC SORTED_SET KEY_GENERIC singleton(final Object element) {
 return new Singleton(KEY_OBJ2TYPE(element));
}
```

```
/** Returns a type-specific immutable sorted set containing only the specified element, and using a specified comparator.
```

```
The returned sorted set is serializable and cloneable.
```

```
*
```

```
* @param element the only element of the returned sorted set.
```

```
* @param comparator the comparator to use in the returned sorted set.
```

```
* @return a type-specific immutable sorted set containing just <code>element</code>.
```

```
*/
```

```
public static KEY_GENERIC SORTED_SET KEY_GENERIC singleton(final Object element, final
KEY_COMPARATOR KEY_SUPER_GENERIC comparator) {
 return new Singleton(KEY_OBJ2TYPE(element), comparator);
}
```

```
#endif
```

```
/** A synchronized wrapper class for sorted sets. */
```

```
public static class SynchronizedSortedSet KEY_GENERIC extends SETS.SynchronizedSet KEY_GENERIC
implements SORTED_SET KEY_GENERIC, java.io.Serializable {
```

```
 private static final long serialVersionUID = -7046029254386353129L;
```

```
 protected final SORTED_SET KEY_GENERIC sortedSet;
```

```
 protected SynchronizedSortedSet(final SORTED_SET KEY_GENERIC s, final Object sync) {
 super(s, sync);
 sortedSet = s;
 }
```

```
 protected SynchronizedSortedSet(
final SORTED_SET KEY_GENERIC s) {
 super(s);
 sortedSet = s;
 }
```

```

 public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { synchronized(sync) { return
sortedSet.comparator(); } }

 public SORTED_SET KEY_GENERIC subSet(final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to) { return new SynchronizedSortedSet KEY_GENERIC(sortedSet.subSet(from, to), sync); }
 public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_TYPE to) { return new
SynchronizedSortedSet KEY_GENERIC(sortedSet.headSet(to), sync); }
 public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_TYPE from) { return new
SynchronizedSortedSet KEY_GENERIC(sortedSet.tailSet(from), sync); }

 public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return sortedSet.iterator(); }
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) { return
sortedSet.iterator(from); }

 @Deprecated
 public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return sortedSet.iterator(); }

 public
KEY_GENERIC_TYPE FIRST() { synchronized(sync) { return sortedSet.FIRST(); } }
 public KEY_GENERIC_TYPE LAST() { synchronized(sync) { return sortedSet.LAST(); } }

#ifdef #keys(primitive)
 public KEY_CLASS first() { synchronized(sync) { return sortedSet.first(); } }
 public KEY_CLASS last() { synchronized(sync) { return sortedSet.last(); } }

 public SORTED_SET KEY_GENERIC subSet(final KEY_CLASS from, final KEY_CLASS to) { return new
SynchronizedSortedSet(sortedSet.subSet(from, to), sync); }
 public SORTED_SET KEY_GENERIC headSet(final KEY_CLASS to) { return new SynchronizedSortedSet(
sortedSet.headSet(to), sync); }
 public SORTED_SET KEY_GENERIC tailSet(final KEY_CLASS from) { return new SynchronizedSortedSet(
sortedSet.tailSet(from), sync); }
#endif
}

/** Returns a synchronized type-specific sorted set backed by the given type-specific sorted set.
 *
 * @param s the sorted set to be wrapped in a synchronized sorted set.
 * @return a synchronized
view of the specified sorted set.
 * @see java.util.Collections#synchronizedSortedSet(SortedSet)
 */
public static KEY_GENERIC SORTED_SET KEY_GENERIC synchronize(final SORTED_SET KEY_GENERIC
s) { return new SynchronizedSortedSet KEY_GENERIC(s); }

/** Returns a synchronized type-specific sorted set backed by the given type-specific sorted set, using an assigned
object to synchronize.

```

```

*
* @param s the sorted set to be wrapped in a synchronized sorted set.
* @param sync an object that will be used to synchronize the access to the sorted set.
* @return a synchronized view of the specified sorted set.
* @see java.util.Collections#synchronizedSortedSet(SortedSet)
*/

public static KEY_GENERIC SORTED_SET KEY_GENERIC synchronize(final SORTED_SET KEY_GENERIC
s, final Object sync) { return new SynchronizedSortedSet KEY_GENERIC(s, sync); }

/** An unmodifiable wrapper class for sorted sets. */

public static class UnmodifiableSortedSet KEY_GENERIC extends SETS.UnmodifiableSet
KEY_GENERIC implements SORTED_SET KEY_GENERIC, java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final SORTED_SET KEY_GENERIC sortedSet;

protected UnmodifiableSortedSet(final SORTED_SET KEY_GENERIC s) {
super(s);
sortedSet = s;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return sortedSet.comparator(); }

public SORTED_SET KEY_GENERIC subSet(final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
to) { return new UnmodifiableSortedSet KEY_GENERIC(sortedSet.subSet(from, to)); }
public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_TYPE to) { return new
UnmodifiableSortedSet KEY_GENERIC(sortedSet.headSet(to)); }
public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_TYPE from) { return new
UnmodifiableSortedSet KEY_GENERIC(sortedSet.tailSet(from)); }

public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return ITERATORS.unmodifiable(sortedSet.iterator()
); }
public
KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) { return
ITERATORS.unmodifiable(sortedSet.iterator(from)); }

@Deprecated
public KEY_BIDI_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return iterator(); }

public KEY_GENERIC_TYPE FIRST() { return sortedSet.FIRST(); }
public KEY_GENERIC_TYPE LAST() { return sortedSet.LAST(); }

```

```

#if #keys(primitive)
 public KEY_CLASS first() { return sortedSet.first(); }
 public KEY_CLASS last() { return sortedSet.last(); }

 public SORTED_SET KEY_GENERIC subSet(final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to) { return new UnmodifiableSortedSet(sortedSet.subSet(from, to)); }
 public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_CLASS to) { return new
UnmodifiableSortedSet(sortedSet.headSet(to)); }
 public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_CLASS from) { return new
UnmodifiableSortedSet(sortedSet.tailSet(from)); }
#endif
}

/** Returns an unmodifiable type-specific
sorted set backed by the given type-specific sorted set.
*
* @param s the sorted set to be wrapped in an unmodifiable sorted set.
* @return an unmodifiable view of the specified sorted set.
* @see java.util.Collections#unmodifiableSortedSet(SortedSet)
*/
public static KEY_GENERIC SORTED_SET KEY_GENERIC unmodifiable(final SORTED_SET
KEY_GENERIC s) { return new UnmodifiableSortedSet KEY_GENERIC(s); }

#if defined(TEST) && ! #keyclass(Reference)

 private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
 return r.NEXT_KEY();
#elif #keyclass(Object)
 return Integer.toBinaryString(r.nextInt());
#endif
 }

protected static void testSets(KEY_TYPE k, SORTED_SET m, SortedSet t, int level) {
 int n = 100;
 int c;

 long ms;
 boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement, mThrowsIndex, tThrowsIndex,
mThrowsUnsupp, tThrowsUnsupp;
 boolean

```

```

rt = false, rm = false;

if (level == 0) return;

/* Now we check that m and t are equal. */
if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

/* Now we check that m actually holds that data. */
for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(java.util.Iterator i=m.iterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)");
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 m.contains(T);
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }

 try {
 t.contains(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
}

```

```

 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", "
+ seed + "): contains() divergence in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " +
tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex) ensure(m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in keys between t and m (polymorphic
method) " + m);
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 m.contains(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true;
}
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 t.contains(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level
+ ", " + seed + "): contains() divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " +
tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): contains() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(
m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence between t
and m (standard method) " + m);

```

```

}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.add(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (
IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 rt = t.add(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() divergence
in IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in add() between t and m " + m);

 T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.remove(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

```

```

catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 rt = t.remove(KEY2OBJ(T));
}
catch
(NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

if (! KEY_EQUALS(T, k) && ! mThrowsUnsupp && tThrowsUnsupp) mThrowsUnsupp = false; // Stupid bug
in Collections.singleton()

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", "
+ tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in remove() between t and m " + m);
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal " + m);

/* Now we add and remove random collections in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch
(NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

```



```

try {
 rt = t.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal
+ ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in addAll() between t and m " + m);

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
 rm = m.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
}
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 rt = t.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): removeAll() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): removeAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): removeAll()

```

```

divergence in IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): removeAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in removeAll() between t and m " + m);
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after set removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after set removal " + m);

/* Now we check that m actually holds the same data. */

for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check
that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.iterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

if (m instanceof Singleton) {
 ensure(m.equals(((Singleton)m).clone()), "Error (" + level + ", " + seed + "): m does not equal m.clone()");
 ensure(((Singleton)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m");
}

int h = m.hashCode();

/* Now we save and read m. */

SORTED_SET m2 = null;

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m2

```

```

= (SORTED_SET)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit(1);
}

#if ! #keyclass(Reference)

ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

/* Now we check that m2 actually holds that data. */

ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
#endif

/* Now we select a pair of keys and create a subset. */

if (! m.isEmpty()) {
java.util.ListIterator i;
Object start = m.first(), end = m.first();
for(i = (java.util.ListIterator)m.iterator(); i.hasNext() && r.nextBoolean(); start = end = i.next());
for(; i.hasNext() && r.nextBoolean(); end = i.next());

//System.err.println("Checking subSet from " + start + " to " + end + " (level=" + (level+1) +
"...");
testSets(k, (SORTED_SET)m.subSet((KEY_CLASS)start, (KEY_CLASS)end), t.subSet(start, end), level - 1);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after subSet");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subSet");

//System.err.println("Checking headSet to " + end + " (level=" + (level+1) + "...");
testSets(k, (SORTED_SET)m.headSet((KEY_CLASS)end), t.headSet(end), level - 1);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after headSet");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after headSet");

//System.err.println("Checking tailSet from " + start + " (level=" + (level+1) + "...");
testSets(k, (SORTED_SET)m.tailSet((KEY_CLASS)start), t.tailSet(start), level - 1);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after tailSet");
ensure(t.equals(m),
"Error (" + level + ", " + seed + "): ! t.equals(m) after tailSet");
}

```

```

return;
}

private static void test() {
 KEY_TYPE k = genKey();
 Singleton m = new Singleton(k);
 SortedSet u = new java.util.TreeSet();
 u.add(KEY2OBJ(k));
 testSets(k, m, java.util.Collections.unmodifiableSortedSet(u), 2);
 System.out.println("Test OK");
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition fp = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, fp).toString();
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

/** This
method expects as first argument a lower-cased type (e.g., "int"),
* and as second optional argument a seed. */

public static void main(String arg[]) throws Exception {
 if (arg.length > 1) r = new java.util.Random(seed = Long.parseLong(arg[1]));

 try {
 test();
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}

```

#endif

}

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/SortedSets.drv

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\*/

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/AbstractByteSortedSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/IndirectDoublePriorityQueues.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/IndirectPriorityQueues.java

\*

/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/FloatPriorityQueues.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/LongPriorityQueues.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/longs/AbstractLongSortedSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/floats/AbstractFloatSortedSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/objects/AbstractReferenceSortedSet.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/ints/IntPriorityQueues.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/BytePriorityQueues.java

\*

```
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/int/AbstractIntSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/AbstractShortSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/DoublePriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/Maps.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/objects/AbstractObjectSortedSet.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/CharPriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/doubles/AbstractDoubleSortedSet.java
*
/opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/shorts/ShortPriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/PriorityQueues.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/chars/AbstractCharSortedSet.java
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```

```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

```
package PACKAGE;
```

```
/** An abstract class facilitating the creation of type-specific { @linkplain java.util.Comparator comparators}.
*
* <P>To create a type-specific comparator you need both a method comparing
* primitive types and a method comparing objects. However, if you have the
* first one you can just inherit
```

from this class and get for free the second

\* one.

\*

\* @see java.util.Comparator

\*/

```
public abstract class KEY_ABSTRACT_COMPARATOR KEY_GENERIC implements KEY_COMPARATOR
KEY_GENERIC, java.io.Serializable {
```

```
 private static final long serialVersionUID = 0L;
```

```
 protected KEY_ABSTRACT_COMPARATOR() {}
```

```
 public int compare(KEY_GENERIC_CLASS ok1, KEY_GENERIC_CLASS ok2) {
```

```
 return compare(ok1.KEY_VALUE(), ok2.KEY_VALUE());
```

```
 }
```

```
 public abstract int compare(KEY_TYPE k1, KEY_TYPE k2);
```

```
 }
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractComparator.drv

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\*/

```
package PACKAGE;
```

```
/** A class providing static methods and objects that do useful things with type-specific functions.
```

```
*/
```

```
*/ @see it.unimi.dsi.fastutil.Function
```

```
*/ @see java.util.Collections
```

```
*/
```

```

public class FUNCTIONS {

private FUNCTIONS() {}

/** An immutable class representing an empty type-specific function.

*
* <P>This class may be useful to implement your own in case you subclass
* a type-specific function.
*/

public static class EmptyFunction KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

protected EmptyFunction() {}

public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) { return VALUE_NULL; }

public boolean containsKey(final KEY_TYPE k) { return false; }

public VALUE_GENERIC_TYPE defaultReturnValue() { return VALUE_NULL; }
public void defaultReturnValue(final VALUE_GENERIC_TYPE defRetVal) { throw new
UnsupportedOperationException(); }

#if #keys(primitive)
#if #values(primitive)
/** {@inheritDoc}
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
@Override
public VALUE_GENERIC_CLASS get(final Object k) { return null; }
#endif

public int size() { return 0; }
public
void clear() {}

private Object readResolve() { return EMPTY_FUNCTION; }

public Object clone() { return EMPTY_FUNCTION; }
}

```



```

/** An empty type-specific function (immutable). It is serializable and cloneable. */

SUPPRESS_WARNINGS_KEY_VALUE_RAWTYPES
public static final EmptyFunction EMPTY_FUNCTION = new EmptyFunction();

/** An immutable class representing a type-specific singleton function.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific function.
 */

public static class Singleton KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected final KEY_GENERIC_TYPE key;
 protected final VALUE_GENERIC_TYPE value;

 protected Singleton(final KEY_GENERIC_TYPE key, final VALUE_GENERIC_TYPE value) {
 this.key = key;
 this.value = value;
 }

 public boolean containsKey(final
KEY_TYPE k) { return KEY_EQUALS(key, k); }

 public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) { if (KEY_EQUALS(key, k)) return
value; return defRetVal; }

 public int size() { return 1; }

 public Object clone() { return this; }
}

/** Returns a type-specific immutable function containing only the specified pair. The returned function is
serializable and cloneable.
 *
 * <P>Note that albeit the returned function is immutable, its default return value may be changed.
 *
 * @param key the only key of the returned function.
 * @param value the only value of the returned function.
 * @return a type-specific immutable function containing just the pair <code><key,value></code>.
 */

public static KEY_VALUE_GENERIC FUNCTION KEY_VALUE_GENERIC singleton(final
KEY_GENERIC_TYPE key, VALUE_GENERIC_TYPE value) {

```

```

return new Singleton KEY_VALUE_GENERIC(key, value);
}

#if #keys(primitive) || #values(primitive)

/** Returns a type-specific immutable function
containing only the specified pair. The returned function is serializable and cloneable.
*
* <P>Note that albeit the returned function is immutable, its default return value may be changed.
*
* @param key the only key of the returned function.
* @param value the only value of the returned function.
* @return a type-specific immutable function containing just the pair <code><key,value></code>.
*/

public static KEY_VALUE_GENERIC FUNCTION KEY_VALUE_GENERIC singleton(final
KEY_GENERIC_CLASS key, final VALUE_GENERIC_CLASS value) {
return new Singleton KEY_VALUE_GENERIC(KEY_CLASS2TYPE(key), VALUE_CLASS2TYPE(value));
}

#endif

/** A synchronized wrapper class for functions. */

public static class SynchronizedFunction KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
KEY_VALUE_GENERIC implements java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

protected final FUNCTION KEY_VALUE_GENERIC function;
protected final
Object sync;

protected SynchronizedFunction(final FUNCTION KEY_VALUE_GENERIC f, final Object sync) {
if (f == null) throw new NullPointerException();
this.function = f;
this.sync = sync;
}

protected SynchronizedFunction(final FUNCTION KEY_VALUE_GENERIC f) {
if (f == null) throw new NullPointerException();
this.function = f;
this.sync = this;
}

public int size() { synchronized(sync) { return function.size(); } }
public boolean containsKey(final KEY_TYPE k) { synchronized(sync) { return function.containsKey(k); } }

```

```

 public VALUE_GENERIC_TYPE defaultReturnValue() { synchronized(sync) { return
function.defaultReturnValue(); } }
 public void defaultReturnValue(final VALUE_GENERIC_TYPE defRetVal) { synchronized(sync) {
function.defaultReturnValue(defRetVal); } }

 public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
synchronized(sync) { return function.put(k, v); } }

 public void clear()
{ synchronized(sync) { function.clear(); } }
 public String toString() { synchronized(sync) { return function.toString(); } }

#if #keys(primitive) || #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
 public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS k, final VALUE_GENERIC_CLASS v) {
synchronized(sync) { return function.put(k, v); } }
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
@Override
 public VALUE_GENERIC_CLASS get(final Object k) { synchronized(sync) { return function.get(k); } }
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
@Override
 public VALUE_GENERIC_CLASS remove(final Object k) { synchronized(sync) { return function.remove(k); }
}
#endif

#if #keys(primitive)
@Override
 public
VALUE_GENERIC_TYPE remove(final KEY_GENERIC_TYPE k) { synchronized(sync) { return
function.remove(k); } }

@Override
 public VALUE_GENERIC_TYPE get(final KEY_GENERIC_TYPE k) { synchronized(sync) { return
function.get(k); } }
 public boolean containsKey(final Object ok) { synchronized(sync) { return function.containsKey(ok); } }
#endif

```

```

#if #keys(reference)
 @Override
 public VALUE_GENERIC_TYPE REMOVE_VALUE(final Object k) { synchronized(sync) { return
function.REMOVE_VALUE(k); } }

 @Override
 public VALUE_GENERIC_TYPE GET_VALUE(final Object k) { synchronized(sync) { return
function.GET_VALUE(k); } }
#endif

}

/** Returns a synchronized type-specific function backed by the given type-specific function.
 *
 * @param f the function to be wrapped in a synchronized function.
 * @return a synchronized view of the specified function.
 * @see java.util.Collections#synchronizedMap(java.util.Map)
 */
public static KEY_VALUE_GENERIC
FUNCTION KEY_VALUE_GENERIC synchronize(final FUNCTION KEY_VALUE_GENERIC f) { return new
SynchronizedFunction KEY_VALUE_GENERIC(f); }

/** Returns a synchronized type-specific function backed by the given type-specific function, using an assigned
object to synchronize.
 *
 * @param f the function to be wrapped in a synchronized function.
 * @param sync an object that will be used to synchronize the access to the function.
 * @return a synchronized view of the specified function.
 * @see java.util.Collections#synchronizedMap(java.util.Map)
 */

public static KEY_VALUE_GENERIC FUNCTION KEY_VALUE_GENERIC synchronize(final FUNCTION
KEY_VALUE_GENERIC f, final Object sync) { return new SynchronizedFunction KEY_VALUE_GENERIC(f,
sync); }

/** An unmodifiable wrapper class for functions. */

public static class UnmodifiableFunction KEY_VALUE_GENERIC extends ABSTRACT_FUNCTION
KEY_VALUE_GENERIC implements java.io.Serializable {

 private static final long serialVersionUID
= -7046029254386353129L;

 protected final FUNCTION KEY_VALUE_GENERIC function;

```

```

protected UnmodifiableFunction(final FUNCTION KEY_VALUE_GENERIC f) {
 if (f == null) throw new NullPointerException();
 this.function = f;
}

public int size() { return function.size(); }
public boolean containsKey(final KEY_TYPE k) { return function.containsKey(k); }

public VALUE_GENERIC_TYPE defaultReturnValue() { return function.defaultReturnValue(); }
public void defaultReturnValue(final VALUE_GENERIC_TYPE defRetVal) { throw new
UnsupportedOperationException(); }

public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
throw new UnsupportedOperationException(); }

public void clear() { throw new UnsupportedOperationException(); }
public String toString() { return function.toString(); }

#if #keys(primitive)
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead.
 */
@Deprecated
#endif
@Override
public VALUE_GENERIC_TYPE remove(final KEY_GENERIC_TYPE k) { throw new
UnsupportedOperationException(); }
#if #values(primitive)
/** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
@Override
public VALUE_GENERIC_TYPE get(final KEY_GENERIC_TYPE k) { return function.get(k); }
public boolean containsKey(final Object ok) { return function.containsKey(ok); }
#endif

#if #keys(reference) || #values(reference)
@Override
public VALUE_GENERIC_TYPE REMOVE_VALUE(final Object k) { throw new
UnsupportedOperationException(); }
@Override
public VALUE_GENERIC_TYPE GET_VALUE(final Object k) { return function.GET_VALUE(k); }
#endif
}

```

```

/** Returns an unmodifiable type-specific function backed by the given type-specific function.
 *
 * @param f the function to be wrapped in an unmodifiable function.
 * @return an unmodifiable view of the specified function.
 * @see
java.util.Collections#unmodifiableMap(java.util.Map)
 */
public static KEY_VALUE_GENERIC FUNCTION KEY_VALUE_GENERIC unmodifiable(final FUNCTION
KEY_VALUE_GENERIC f) { return new UnmodifiableFunction KEY_VALUE_GENERIC(f); }
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Functions.drv

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```

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 * limitations under the License.
 */

```

```
package PACKAGE;
```

```
import java.lang.Iterable;
```

```

/** A type-specific { @link Iterable } that strengthens that specification of { @link Iterable#iterator() }.
 *
 * <p>Warning: Java will let you write “colon” <code>for</code> statements with
primitive-type
 * loop variables; however, what is (unfortunately)
really happening is that at each iteration an
 * unboxing (and, in the case of <code>fastutil</code> type-specific data structures, a boxing) will be performed.
Watch out.
 *
 * @see Iterable
 */

```

```

public interface KEY_ITERABLE KEY_GENERIC extends Iterable<KEY_GENERIC_CLASS> {

 /** Returns a type-specific iterator.
 *
 * Note that this specification strengthens the one given in {@link Iterable#iterator()}.
 *
 * @return a type-specific iterator.
 */
 KEY_ITERATOR KEY_GENERIC iterator();
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Iterable.drv

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```

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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 * limitations under the License.
 */

```

```

package PACKAGE;

```

```

/** A class providing static methods and objects that do useful things with type-specific priority queues.
 *
 * @see it.unimi.dsi.fastutil.PriorityQueue
 */

```

```

public class PRIORITY_QUEUEES {

```

```

 private PRIORITY_QUEUEES() {}

```

```

 /** A synchronized wrapper class for priority queues. */

```

```

 public static class

```

```

 SynchronizedPriorityQueue KEY_GENERIC implements PRIORITY_QUEUE KEY_GENERIC {
 final protected PRIORITY_QUEUE KEY_GENERIC q;

```

```
final protected Object sync;
```

```
protected SynchronizedPriorityQueue(final PRIORITY_QUEUE KEY_GENERIC q, final Object sync) {
 this.q = q;
 this.sync = sync;
}
```

```
protected SynchronizedPriorityQueue(final PRIORITY_QUEUE KEY_GENERIC q) {
 this.q = q;
 this.sync = this;
}
```

```
public void enqueue(KEY_GENERIC_TYPE x) { synchronized(sync) { q.enqueue(x); } }
public KEY_GENERIC_TYPE DEQUEUE() { synchronized(sync) { return q.DEQUEUE(); } }
public KEY_GENERIC_TYPE FIRST() { synchronized(sync) { return q.FIRST(); } }
public KEY_GENERIC_TYPE LAST() { synchronized(sync) { return q.LAST(); } }
public boolean isEmpty() { synchronized(sync) { return q.isEmpty(); } }
public int size() { synchronized(sync) { return q.size(); } }
public void clear() { synchronized(sync) { q.clear(); } }
public void changed() { synchronized(sync
) { q.changed(); } }
public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { synchronized(sync) { return
q.comparator(); } }
```

```
#if !#keyclass(Object)
```

```
public void enqueue(KEY_CLASS x) { synchronized(sync) { q.enqueue(x); } }
public KEY_CLASS dequeue() { synchronized(sync) { return q.dequeue(); } }
public KEY_CLASS first() { synchronized(sync) { return q.first(); } }
public KEY_CLASS last() { synchronized(sync) { return q.last(); } }
```

```
#endif
```

```
}
```

```
/** Returns a synchronized type-specific priority queue backed by the specified type-specific priority queue.
```

```
*
```

```
* @param q the priority queue to be wrapped in a synchronized priority queue.
```

```
* @return a synchronized view of the specified priority queue.
```

```
*/
```

```
public static KEY_GENERIC PRIORITY_QUEUE KEY_GENERIC synchronize(final PRIORITY_QUEUE
KEY_GENERIC q) { return new SynchronizedPriorityQueue(q); }
```

```
/** Returns a synchronized type-specific priority queue backed by the specified type-specific priority queue,
using an assigned object to synchronize.
```

```
*
```

```
* @param q the priority queue to be wrapped in a synchronized priority queue.
```

```
* @param sync an object that will be used to synchronize the access to the priority queue.
```

```
* @return a synchronized view of the specified priority queue.
```

```
*/
```



```
public static KEY_GENERIC PRIORITY_QUEUE KEY_GENERIC synchronize(final PRIORITY_QUEUE
KEY_GENERIC q, final Object sync) { return new SynchronizedPriorityQueue(q, sync); }

}
```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/PriorityQueues.drv

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\*/

```
package PACKAGE;
```

```
#if #keys(reference)
```

```
import it.unimi.dsi.fastutil.Stack;
```

```
#endif
```

```
import java.util.Iterator;
```

```
import java.util.Collection;
```

```
import java.util.NoSuchElementException;
```

```
import it.unimi.dsi.fastutil.BigList;
```

```
import it.unimi.dsi.fastutil.BigListIterator;
```

```
/** An abstract class providing basic methods for
```

```
big lists implementing a type-specific big list interface. */
```

```
public abstract class ABSTRACT_BIG_LIST KEY_GENERIC extends ABSTRACT_COLLECTION
```

```
KEY_GENERIC implements BIG_LIST KEY_GENERIC, STACK KEY_GENERIC {
```

```
protected ABSTRACT_BIG_LIST() {}
```

```

/** Ensures that the given index is nonnegative and not greater than this big-list size.
 *
 * @param index an index.
 * @throws IndexOutOfBoundsException if the given index is negative or greater than this big-list size.
 */
protected void ensureIndex(final long index) {
 if (index < 0) throw new IndexOutOfBoundsException("Index (" + index + ") is negative");
 if (index > size64()) throw new IndexOutOfBoundsException("Index (" + index + ") is greater than list size (" + (
size64()) + ")");
}

/** Ensures that the given index is nonnegative and smaller than this big-list size.
 *
 * @param index an index.
 * @throws IndexOutOfBoundsException if the given index is negative or not smaller than this big-list size.
 */
protected
void ensureRestrictedIndex(final long index) {
 if (index < 0) throw new IndexOutOfBoundsException("Index (" + index + ") is negative");
 if (index >= size64()) throw new IndexOutOfBoundsException("Index (" + index + ") is greater than or equal to
list size (" + (size64()) + ")");
}

public void add(final long index, final KEY_GENERIC_TYPE k) {
 throw new UnsupportedOperationException();
}

public boolean add(final KEY_GENERIC_TYPE k) {
 add(size64(), k);
 return true;
}

public KEY_GENERIC_TYPE REMOVE_KEY(long i) {
 throw new UnsupportedOperationException();
}

public KEY_GENERIC_TYPE REMOVE_KEY(int i) {
 return REMOVE_KEY((long)i);
}

public KEY_GENERIC_TYPE set(final long index, final KEY_GENERIC_TYPE k) {
 throw new UnsupportedOperationException();
}

public KEY_GENERIC_TYPE set(final int index, final KEY_GENERIC_TYPE k) {
 return set((long)index, k);
}

```

```

public boolean addAll(long index, final Collection<? extends KEY_GENERIC_CLASS>
c) {
 ensureIndex(index);
 int n = c.size();
 if (n == 0) return false;
 Iterator<? extends KEY_GENERIC_CLASS> i = c.iterator();
 while(n-- != 0) add(index++, i.next());
 return true;
}

public boolean addAll(int index, final Collection<? extends KEY_GENERIC_CLASS> c) {
 return addAll((long)index, c);
}

/** Delegates to a more generic method. */
public boolean addAll(final Collection<? extends KEY_GENERIC_CLASS> c) {
 return addAll(size64(), c);
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC iterator() {
 return listIterator();
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator() {
 return listIterator(0L);
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(final long index) {
 return new KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC() {
 long pos = index, last = -1;

 public boolean hasNext() { return pos < ABSTRACT_BIG_LIST.this.size64(); }
 public boolean hasPrevious() { return pos > 0; }
 public KEY_GENERIC_TYPE
NEXT_KEY() { if (! hasNext()) throw new NoSuchElementException(); return
ABSTRACT_BIG_LIST.this.GET_KEY(last = pos++); }
 public KEY_GENERIC_TYPE PREV_KEY() { if (! hasPrevious()) throw new NoSuchElementException(); return
ABSTRACT_BIG_LIST.this.GET_KEY(last = --pos); }
 public long nextIndex() { return pos; }
 public long previousIndex() { return pos - 1; }
 public void add(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 ABSTRACT_BIG_LIST.this.add(pos++, k);
 last = -1;
 }
 public void set(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();

```

```

 ABSTRACT_BIG_LIST.this.set(last, k);
}
public void remove() {
 if (last == -1) throw new IllegalStateException();
 ABSTRACT_BIG_LIST.this.REMOVE_KEY(last);
 /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly. */
 if (last < pos
) pos--;
 last = -1;
}
};
}

```

```

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(final int index) {
 return listIterator((long)index);
}

```

```

public boolean contains(final KEY_TYPE k) {
 return indexOf(k) >= 0;
}

```

```

public long indexOf(final KEY_TYPE k) {
 final KEY_BIG_LIST_ITERATOR KEY_GENERIC i = listIterator();
 KEY_GENERIC_TYPE e;
 while(i.hasNext()) {
 e = i.NEXT_KEY();
 if (KEY_EQUALS(k, e)) return i.previousIndex();
 }
 return -1;
}

```

```

public long lastIndexOf(final KEY_TYPE k) {
 KEY_BIG_LIST_ITERATOR KEY_GENERIC i = listIterator(size64());
 KEY_GENERIC_TYPE e;
 while(i.hasPrevious()) {
 e = i.PREV_KEY();
 if (KEY_EQUALS(k, e)) return i.nextIndex();
 }
 return -1;
}

```

```

public void size(final long size) {
 long i = size64();
 if (size > i) while(i++ < size) add(KEY_NULL);
 else while(i-- != size) remove(i);
}

```

```

}

public void size(final int size) {
 size((long)size);
}

public BIG_LIST KEY_GENERIC
subList(final long from, final long to) {
 ensureIndex(from);
 ensureIndex(to);
 if (from > to) throw new IndexOutOfBoundsException("Start index (" + from + ") is greater than end index (" + to
+ ")");

 return new SUBLIST KEY_GENERIC(this, from, to);
}

/** Removes elements of this type-specific big list one-by-one.
 *
 * <P>This is a trivial iterator-based implementation. It is expected that
 * implementations will override this method with a more optimized version.
 *
 * @param from the start index (inclusive).
 * @param to the end index (exclusive).
 */

public void removeElements(final long from, final long to) {
 ensureIndex(to);
 KEY_BIG_LIST_ITERATOR KEY_GENERIC i = listIterator(from);
 long n = to - from;
 if (n < 0) throw new IllegalArgumentException("Start index (" + from + ") is greater than end index (" + to + ")");
 while(n-- != 0) {
 i.NEXT_KEY();
 i.remove();
 }
}

/** Adds elements to this type-specific big list
one-by-one.
 *
 * <P>This is a trivial iterator-based implementation. It is expected that
 * implementations will override this method with a more optimized version.
 *
 * @param index the index at which to add elements.
 * @param a the big array containing the elements.
 * @param offset the offset of the first element to add.
 * @param length the number of elements to add.
 */

```

```

public void addElements(long index, final KEY_GENERIC_TYPE a[], long offset, long length) {
 ensureIndex(index);
 BIG_ARRAYS.ensureOffsetLength(a, offset, length);
 while(length-- != 0) add(index++, BIG_ARRAYS.get(a, offset++));
}

public void addElements(final long index, final KEY_GENERIC_TYPE a[][]) {
 addElements(index, a, 0, BIG_ARRAYS.length(a));
}

/** Copies element of this type-specific big list into the given big array one-by-one.
 *
 * <P>This is a trivial iterator-based implementation. It is expected that
 * implementations will override this method with
 * a more optimized version.
 *
 * @param from the start index (inclusive).
 * @param a the destination big array.
 * @param offset the offset into the destination big array where to store the first element copied.
 * @param length the number of elements to be copied.
 */

public void getElements(final long from, final KEY_TYPE a[], long offset, long length) {
 KEY_BIG_LIST_ITERATOR KEY_GENERIC i = listIterator(from);
 BIG_ARRAYS.ensureOffsetLength(a, offset, length);
 if (from + length > size64()) throw new IndexOutOfBoundsException("End index (" + (from + length) + ") is
greater than list size (" + size64() + ")");
 while(length-- != 0) BIG_ARRAYS.set(a, offset++, i.NEXT_KEY());
}

@Deprecated
public int size() {
 return (int)Math.min(Integer.MAX_VALUE, size64());
}

#if ! #keyclass(Reference)
private boolean valEquals(final Object a, final Object b) {
 return a == null ? b == null : a.equals(b);
}
#endif

public boolean equals(final Object
o) {
 if (o == this) return true;
 if (! (o instanceof BigList)) return false;
 final BigList<?> l = (BigList<?>)o;
 long s = size64();
 if (s != l.size64()) return false;

```

```

#if #keys(primitive)
 if (l instanceof BIG_LIST) {
 final KEY_BIG_LIST_ITERATOR KEY_GENERIC i1 = listIterator(), i2 = ((BIG_LIST
KEY_GENERIC)l).listIterator();
 while(s-- != 0) if (i1.NEXT_KEY() != i2.NEXT_KEY()) return false;
 return true;
 }
#endif

 final BigListIterator<?> i1 = listIterator(), i2 = l.listIterator();

#if #keyclass(Reference)
 while(s-- != 0) if (i1.next() != i2.next()) return false;
#else
 while(s-- != 0) if (! valEquals(i1.next(), i2.next())) return false;
#endif
 return true;
}

#if ! #keyclass(Reference)
 /** Compares this big list to another object. If the
 * argument is a {@link BigList}, this method performs a lexicographical comparison; otherwise,
 * it throws a ClassCastException.
 *
 * @param l a big list.
 *
 * @return if the argument is a {@link BigList}, a negative integer,
 * zero, or a positive integer as this list is lexicographically less than, equal
 * to, or greater than the argument.
 * @throws ClassCastException if the argument is not a big list.
 */

```

---

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
public int compareTo(final BigList<? extends KEY_GENERIC_CLASS> l) {
 if (l == this) return 0;

 if (l instanceof BIG_LIST) {

 final KEY_BIG_LIST_ITERATOR KEY_GENERIC i1 = listIterator(), i2 = ((BIG_LIST
KEY_GENERIC)l).listIterator();
 int r;
 KEY_GENERIC_TYPE e1, e2;

 while(i1.hasNext() && i2.hasNext()) {
 e1 = i1.NEXT_KEY();
 e2 = i2.NEXT_KEY();
 if ((r = KEY_CMP(e1, e2)) != 0) return r;

```

```

 }
 return i2.hasNext() ? -1 : (i1.hasNext() ? 1 : 0);
}

BigListIterator<? extends KEY_GENERIC_CLASS> i1 = listIterator(), i2 = l.listIterator();
int r;

while(i1.hasNext() && i2.hasNext()) {
 if ((r = ((Comparable<? super KEY_GENERIC_CLASS>)i1.next()).compareTo(
i2.next())) != 0) return r;
}
return i2.hasNext() ? -1 : (i1.hasNext() ? 1 : 0);
}
#endif

/** Returns the hash code for this big list, which is identical to { @link java.util.List#hashCode()}.
 *
 * @return the hash code for this big list.
 */
public int hashCode() {
 KEY_ITERATOR KEY_GENERIC i = iterator();
 int h = 1;
 long s = size64();
 while (s-- != 0) {
 KEY_GENERIC_TYPE k = i.NEXT_KEY();
 h = 31 * h + KEY2JAVAHASH(k);
 }
 return h;
}

public void push(KEY_GENERIC_TYPE o) {
 add(o);
}

public KEY_GENERIC_TYPE POP() {
 if (isEmpty()) throw new NoSuchElementException();
 return REMOVE_KEY(size64() - 1);
}

public KEY_GENERIC_TYPE TOP() {
 if (isEmpty()) throw new NoSuchElementException();
 return GET_KEY(size64() - 1);
}

public KEY_GENERIC_TYPE PEEK(int i) {
 return GET_KEY(size64() - 1 - i);
}
}

```



```

#if #keys(primitive)

public KEY_TYPE GET_KEY(final int index) {
 return GET_KEY((long)index
);
}

public boolean rem(KEY_TYPE k) {
 long index = indexOf(k);
 if (index == -1) return false;
 REMOVE_KEY(index);
 return true;
}

/** Delegates to a more generic method. */
public boolean addAll(final long index, final COLLECTION c) {
 return addAll(index, (Collection<? extends KEY_CLASS>)c);
}

/** Delegates to a more generic method. */
public boolean addAll(final long index, final BIG_LIST l) {
 return addAll(index, (COLLECTION)l);
}

public boolean addAll(final COLLECTION c) {
 return addAll(size64(), c);
}

public boolean addAll(final BIG_LIST l) {
 return addAll(size64(), l);
}

/** {@inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public void add(final long index, final KEY_CLASS ok) {
 add(index, ok.KEY_VALUE());
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific
method instead. */
@Deprecated
public KEY_CLASS set(final long index, final KEY_CLASS ok) {
 return KEY2OBJ(set(index, ok.KEY_VALUE()));
}

```

```

}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS get(final long index) {
 return KEY2OBJ(GET_KEY(index));
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public long indexOf(final Object ok) {
 return indexOf(KEY_OBJ2TYPE(ok));
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public long lastIndexOf(final Object ok) {
 return lastIndexOf(KEY_OBJ2TYPE(ok));
}

/**
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific
method instead. */
@Deprecated
public KEY_CLASS remove(final int index) {
 return KEY2OBJ(REMOVE_KEY(index));
}

/** { @inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated

```

```

public KEY_CLASS remove(final long index) {
 return KEY2OBJ(REMOVE_KEY(index));
}

/** {@inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public void push(KEY_CLASS o) {
 push(o.KEY_VALUE());
}

/** {@inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS pop() {
 return KEY_CLASS.valueOf(POP());
}

/** {@inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS
top() {
 return KEY_CLASS.valueOf(TOP());
}

/** {@inheritDoc}
 *
 * Delegates to a more generic method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_CLASS peek(int i) {
 return KEY_CLASS.valueOf(PEEK(i));
}

#else

public KEY_GENERIC_CLASS get(int index) {

```

```
return get((long)index);
}
```

```
#endif
```

```
public String toString() {
 final StringBuilder s = new StringBuilder();
 final KEY_ITERATOR KEY_GENERIC i = iterator();
 long n = size64();
 KEY_GENERIC_TYPE k;
 boolean first = true;

 s.append("[");

 while(n-- != 0) {
 if (first) first = false;
 else s.append(", ");
 k = i.NEXT_KEY();
 #if #keys(reference)
 if (this == k) s.append("(this big list)"); else
 #endif
 s.append(String.valueOf(k));
 }

 s.append("]");
 return s.toString();
}
```

```
public static class SUBLIST KEY_GENERIC extends ABSTRACT_BIG_LIST KEY_GENERIC implements
java.io.Serializable {
```

```
 private static final
 long serialVersionUID = -7046029254386353129L;
 /** The list this sublist restricts. */
 protected final BIG_LIST KEY_GENERIC l;
 /** Initial (inclusive) index of this sublist. */
 protected final long from;
 /** Final (exclusive) index of this sublist. */
 protected long to;
```

```
private static final boolean ASSERTS = ASSERTS_VALUE;
```

```
public SUBLIST(final BIG_LIST KEY_GENERIC l, final long from, final long to) {
 this.l = l;
 this.from = from;
 this.to = to;
}
```

```

private void assertRange() {
 if (ASSERTS) {
 assert from <= l.size64();
 assert to <= l.size64();
 assert to >= from;
 }
}

public boolean add(final KEY_GENERIC_TYPE k) {
 l.add(to, k);
 to++;
 if (ASSERTS) assertRange();
 return true;
}

public void add(final long index, final KEY_GENERIC_TYPE k) {
 ensureIndex(index);
 l.add(from + index, k);
 to++;
 if (ASSERTS) assertRange();
}

public boolean addAll(final long index, final Collection<? extends
KEY_GENERIC_CLASS> c) {
 ensureIndex(index);
 to += c.size();
 if (ASSERTS) {
 boolean retVal = l.addAll(from + index, c);
 assertRange();
 return retVal;
 }
 return l.addAll(from + index, c);
}

public KEY_GENERIC_TYPE GET_KEY(long index) {
 ensureRestrictedIndex(index);
 return l.GET_KEY(from + index);
}

public KEY_GENERIC_TYPE REMOVE_KEY(long index) {
 ensureRestrictedIndex(index);
 to--;
 return l.REMOVE_KEY(from + index);
}

public KEY_GENERIC_TYPE set(long index, KEY_GENERIC_TYPE k) {
 ensureRestrictedIndex(index);

```

```

return l.set(from + index, k);
}

public void clear() {
removeElements(0, size64());
if (ASSERTS) assertRange();
}

public long size64() {
return to - from;
}

public void getElements(final long from, final KEY_TYPE[][] a, final long offset, final long length) {
ensureIndex(from);
if (from + length > size64()) throw new IndexOutOfBoundsException("End index
(" + from + length + ") is greater than list size (" + size64() + ")");
l.getElements(this.from + from, a, offset, length);
}

public void removeElements(final long from, final long to) {
ensureIndex(from);
ensureIndex(to);
l.removeElements(this.from + from, this.from + to);
this.to -= (to - from);
if (ASSERTS) assertRange();
}

public void addElements(final long index, final KEY_GENERIC_TYPE a[], long offset, long length) {
ensureIndex(index);
l.addElements(this.from + index, a, offset, length);
this.to += length;
if (ASSERTS) assertRange();
}

public KEY_BIG_LIST_ITERATOR KEY_GENERIC listIterator(final long index) {
ensureIndex(index);

return new KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC() {
long pos = index, last = -1;

public boolean hasNext() { return pos < size64(); }
public boolean hasPrevious() { return pos > 0; }
public KEY_GENERIC_TYPE NEXT_KEY() { if (! hasNext())
throw new NoSuchElementException(); return l.GET_KEY(from + (last = pos++)); }
public KEY_GENERIC_TYPE PREV_KEY() { if (! hasPrevious()) throw new NoSuchElementException(); return
l.GET_KEY(from + (last = --pos)); }
public long nextIndex() { return pos; }
public long previousIndex() { return pos - 1; }
}
}

```

```

public void add(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 SUBLIST.this.add(pos++, k);
 last = -1;
 if (ASSERTS) assertRange();
}
public void set(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 SUBLIST.this.set(last, k);
}
public void remove() {
 if (last == -1) throw new IllegalStateException();
 SUBLIST.this.REMOVE_KEY(last);
 /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly. */
 if (last < pos) pos--;
 last = -1;
 if (ASSERTS
) assertRange();
}
};
}

public BIG_LIST KEY_GENERIC subList(final long from, final long to) {
 ensureIndex(from);
 ensureIndex(to);
 if (from > to) throw new IllegalArgumentException("Start index (" + from + ") is greater than end index (" + to +
)");

 return new SUBLIST KEY_GENERIC(this, from, to);
}

#if #keys(primitive)

public boolean rem(KEY_TYPE k) {
 long index = indexOf(k);
 if (index == -1) return false;
 to--;
 l.REMOVE_KEY(from + index);
 if (ASSERTS) assertRange();
 return true;
}

public boolean remove(final Object o) {
 return rem(KEY_OBJ2TYPE(o));
}

public boolean addAll(final long index, final COLLECTION c) {

```

```

ensureIndex(index);
to += c.size();
if (ASSERTS) {
 boolean retVal = l.addAll(from + index, c);
 assertRange();
 return retVal;
}
return l.addAll(from + index, c);
}

public boolean addAll(final long index, final LIST l) {
 ensureIndex(index
);
 to += l.size();
 if (ASSERTS) {
 boolean retVal = this.l.addAll(from + index, l);
 assertRange();
 return retVal;
 }
 return this.l.addAll(from + index, l);
}

#else
public boolean remove(final Object o) {
 long index = indexOf(o);
 if (index == -1) return false;
 REMOVE_KEY(index);
 return true;
}
#endif

}

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractBigList.drv

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

/\*

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\*



```
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*/
```

```
package PACKAGE;
```

```
import java.util.List;
import java.util.Collection;
import java.util.Random;
```

```
/** A class providing static methods and objects that do useful things with type-specific lists.
 *
 * @see java.util.Collections
 */
```

```
public class LISTS {
```

```
 private LISTS() {}
```

```
 /** Shuffles the specified list using the
 * specified pseudorandom number generator.
```

```
 *
```

```
 * @param l the list to be shuffled.
```

```
 * @param random a pseudorandom number generator (please use a XorShift generator).
```

```
 * @return l.
```

```
 */
```

```
 public static KEY_GENERIC LIST KEY_GENERIC shuffle(final LIST KEY_GENERIC l, final Random random
) {
 for(int i = l.size(); i-- != 0;) {
 final int p = random.nextInt(i + 1);
 final KEY_GENERIC_TYPE t = l.GET_KEY(i);
 l.set(i, l.GET_KEY(p));
 l.set(p, t);
 }
 return l;
 }
}
```

```
/** An immutable class representing an empty type-specific list.
```

```
 *
```

```
 * <P>This class may be useful to implement your own in case you subclass
```

```
 * a type-specific list.
```

```
 */
```

```

public static class EmptyList KEY_GENERIC extends COLLECTIONS.EmptyCollection KEY_GENERIC
implements LIST KEY_GENERIC, java.io.Serializable, Cloneable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected
 EmptyList() {}

 public void add(final int index, final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }

 public boolean add(final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
 public KEY_GENERIC_TYPE REMOVE_KEY(int i) { throw new UnsupportedOperationException(); }
 public KEY_GENERIC_TYPE set(final int index, final KEY_GENERIC_TYPE k) { throw new
UnsupportedOperationException(); }

 public int indexOf(KEY_TYPE k) { return -1; }
 public int lastIndexOf(KEY_TYPE k) { return -1; }

 public boolean addAll(Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
 public boolean addAll(int i, Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
 public boolean removeAll(Collection<?> c) { throw new UnsupportedOperationException(); }

 public KEY_GENERIC_CLASS get(int i) { throw new IndexOutOfBoundsException(); }

#ifdef keys(primitive)
 public
 boolean addAll(COLLECTION c) { throw new UnsupportedOperationException(); }
 public boolean addAll(LIST c) { throw new UnsupportedOperationException(); }
 public boolean addAll(int i, COLLECTION c) { throw new UnsupportedOperationException(); }
 public boolean addAll(int i, LIST c) { throw new UnsupportedOperationException(); }

 public void add(final int index, final KEY_GENERIC_CLASS k) { throw new UnsupportedOperationException();
}
 public boolean add(final KEY_GENERIC_CLASS k) { throw new UnsupportedOperationException(); }
 public KEY_GENERIC_CLASS set(final int index, final KEY_GENERIC_CLASS k) { throw new
UnsupportedOperationException(); }
 public KEY_GENERIC_TYPE GET_KEY(int i) { throw new IndexOutOfBoundsException(); }

 public KEY_GENERIC_CLASS remove(int k) { throw new UnsupportedOperationException(); }

 public int indexOf(Object k) { return -1; }
 public int lastIndexOf(Object k) { return -1; }
#endif

//SUPPRESS_WARNINGS_KEY_UNCHECKED
//public

```

```

KEY_ITERATOR KEY_GENERIC iterator(int i) { if (i == 0) return ITERATORS.EMPTY_ITERATOR; throw
new IndexOutOfBoundsException(String.valueOf(i)); }

@Deprecated
SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_ITERATOR KEY_GENERIC KEY_ITERATOR_METHOD() { return
ITERATORS.EMPTY_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_LIST_ITERATOR KEY_GENERIC listIterator() { return ITERATORS.EMPTY_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return ITERATORS.EMPTY_ITERATOR; }

SUPPRESS_WARNINGS_KEY_UNCHECKED
public KEY_LIST_ITERATOR KEY_GENERIC listIterator(int i) { if (i == 0) return
ITERATORS.EMPTY_ITERATOR; throw new IndexOutOfBoundsException(String.valueOf(i)); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD() { return listIterator(); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD(int i) { return listIterator(i
); }

public LIST
KEY_GENERIC subList(int from, int to) { if (from == 0 && to == 0) return this; throw new
IndexOutOfBoundsException(); }

@Deprecated
public LIST KEY_GENERIC SUBLIST_METHOD(int from, int to) { return subList(from, to); }

public void getElements(int from, KEY_TYPE[] a, int offset, int length) { if (from == 0 && length == 0 &&
offset >= 0 && offset <= a.length) return; throw new IndexOutOfBoundsException(); }
public void removeElements(int from, int to) { throw new UnsupportedOperationException(); }

public void addElements(int index, final KEY_GENERIC_TYPE a[], int offset, int length) { throw new
UnsupportedOperationException(); }
public void addElements(int index, final KEY_GENERIC_TYPE a[]) { throw new
UnsupportedOperationException(); }

public void size(int s) { throw new UnsupportedOperationException(); }

public int compareTo(final List<? extends KEY_GENERIC_CLASS> o) {
if (o == this) return 0;
return ((List<?>)o).isEmpty() ? 0 : -1;
}

```

```

private
Object readResolve() { return EMPTY_LIST; }
public Object clone() { return EMPTY_LIST; }
}

/** An empty list (immutable). It is serializable and cloneable.
 *
 * <P>The class of this objects represent an abstract empty list
 * that is a sublist of any type of list. Thus, {@link #EMPTY_LIST}
 * may be assigned to a variable of any (sorted) type-specific list.
 */

SUPPRESS_WARNINGS_KEY_RAWTYPES
public static final EmptyList EMPTY_LIST = new EmptyList();

/** An immutable class representing a type-specific singleton list.
 *
 * <P>This class may be useful to implement your own in case you subclass
 * a type-specific list.
 */

public static class Singleton KEY_GENERIC extends ABSTRACT_LIST KEY_GENERIC implements
java.io.Serializable, Cloneable {

private static final long serialVersionUID = -7046029254386353129L;

private final KEY_GENERIC_TYPE element;

private Singleton(final KEY_GENERIC_TYPE element) {
this.element = element;
}

public
KEY_GENERIC_TYPE GET_KEY(final int i) { if (i == 0) return element; throw new
IndexOutOfBoundsException(); }
public KEY_GENERIC_TYPE REMOVE_KEY(final int i) { throw new UnsupportedOperationException(); }
public boolean contains(final KEY_TYPE k) { return KEY_EQUALS(k, element); }

public boolean addAll(final Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
public boolean addAll(final int i, final Collection <? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }
public boolean removeAll(final Collection<?> c) { throw new UnsupportedOperationException(); }
public boolean retainAll(final Collection<?> c) { throw new UnsupportedOperationException(); }

/* Slightly optimized w.r.t. the one in ABSTRACT_SET. */

```

```

public KEY_TYPE[] TO_KEY_ARRAY() {
 KEY_TYPE a[] = new KEY_TYPE[1];
 a[0] = element;
 return a;
}

public KEY_LIST_ITERATOR KEY_GENERIC listIterator() { return
ITERATORS.singleton(element); }

public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return listIterator(); }

public KEY_LIST_ITERATOR KEY_GENERIC listIterator(int i) {
 if (i > 1 || i < 0) throw new IndexOutOfBoundsException();
 KEY_LIST_ITERATOR KEY_GENERIC l = listIterator();
 if (i == 1) l.next();
 return l;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public LIST KEY_GENERIC subList(final int from, final int to) {
 ensureIndex(from);
 ensureIndex(to);
 if (from > to) throw new IndexOutOfBoundsException("Start index (" + from + ") is greater than end index (" + to
+ ")");

 if (from != 0 || to != 1) return EMPTY_LIST;
 return this;
}

public int size() { return 1; }
public void size(final int size) { throw new UnsupportedOperationException(); }
public void clear() { throw new UnsupportedOperationException(); }

public Object clone() { return this; }

#if #keys(primitive)
 public boolean rem(final KEY_GENERIC_TYPE k) { throw
new UnsupportedOperationException(); }
 public boolean addAll(final COLLECTION c) { throw new UnsupportedOperationException(); }
 public boolean addAll(final int i, final COLLECTION c) { throw new UnsupportedOperationException(); }
#else
 public boolean remove(final Object k) { throw new UnsupportedOperationException(); }
#endif
}

```

/\*\* Returns a type-specific immutable list containing only the specified element. The returned list is serializable and

cloneable.

\*

\* @param element the only element of the returned list.

\* @return a type-specific immutable list containing just `element`.

\*/

```
public static KEY_GENERIC LIST KEY_GENERIC singleton(final KEY_GENERIC_TYPE element) { return
new Singleton KEY_GENERIC(element); }
```

```
#if ! #keys(reference)
```

```
/** Returns a type-specific immutable list containing only the specified element. The returned list is serializable and
cloneable.
```

\*

\* @param element the only element of the returned list.

\* @return a type-specific
immutable list containing just `element`.

\*/

```
public static KEY_GENERIC LIST KEY_GENERIC singleton(final Object element) { return new Singleton
KEY_GENERIC(KEY_OBJ2TYPE(element)); }
```

```
#endif
```

```
/** A synchronized wrapper class for lists. */
```

```
public static class SynchronizedList KEY_GENERIC extends COLLECTIONS.SynchronizedCollection
KEY_GENERIC implements LIST KEY_GENERIC, java.io.Serializable {
```

```
private static final long serialVersionUID = -7046029254386353129L;
```

```
protected final LIST KEY_GENERIC list; // Due to the large number of methods that are not in COLLECTION,
this is worth caching.
```

```
protected SynchronizedList(final LIST KEY_GENERIC l, final Object sync) {
super(l, sync);
this.list = l;
}
```

```
protected SynchronizedList(final LIST KEY_GENERIC l) {
super(l);
this.list = l;
}
```

```
public KEY_GENERIC_TYPE GET_KEY(final int i) { synchronized(sync) { return list.GET_KEY(i); } }
public KEY_GENERIC_TYPE set(final int i,
```

```

final KEY_GENERIC_TYPE k) { synchronized(sync) { return list.set(i, k); } }
public void add(final int i, final KEY_GENERIC_TYPE k) { synchronized(sync) { list.add(i, k); } }
public KEY_GENERIC_TYPE REMOVE_KEY(final int i) { synchronized(sync) { return list.REMOVE_KEY(i
); } }

public int indexOf(final KEY_TYPE k) { synchronized(sync) { return list.indexOf(k); } }
public int lastIndexOf(final KEY_TYPE k) { synchronized(sync) { return list.lastIndexOf(k); } }

public boolean addAll(final int index, final Collection<? extends KEY_GENERIC_CLASS> c) { synchronized(
sync) { return list.addAll(index, c); } }

public void getElements(final int from, final KEY_TYPE a[], final int offset, final int length) { synchronized(sync
) { list.getElements(from, a, offset, length); } }
public void removeElements(final int from, final int to) { synchronized(sync) { list.removeElements(from, to); }
}
public void addElements(int index, final KEY_GENERIC_TYPE
a[], int offset, int length) { synchronized(sync) { list.addElements(index, a, offset, length); } }
public void addElements(int index, final KEY_GENERIC_TYPE a[]) { synchronized(sync) { list.addElements(
index, a); } }
public void size(final int size) { synchronized(sync) { list.size(size); } }

public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return list.iterator(); }
public KEY_LIST_ITERATOR KEY_GENERIC listIterator() { return list.listIterator(); }
public KEY_LIST_ITERATOR KEY_GENERIC listIterator(final int i) { return list.listIterator(i); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD() { return listIterator(); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD(final int i) { return
listIterator(i); }

public LIST KEY_GENERIC subList(final int from, final int to) { synchronized(sync) { return synchronize(
list.subList(from, to), sync); } }

@Deprecated
public
LIST KEY_GENERIC SUBLIST_METHOD(final int from, final int to) { return subList(from, to); }

public boolean equals(final Object o) { synchronized(sync) { return collection.equals(o); } }
public int hashCode() { synchronized(sync) { return collection.hashCode(); } }

#if ! #keyclass(Reference)
public int compareTo(final List<? extends KEY_GENERIC_CLASS> o) { synchronized(sync) { return
list.compareTo(o); } }
#endif

#if #keys(primitive)

```

```

public boolean addAll(final int index, final COLLECTION c) { synchronized(sync) { return list.addAll(index, c
); } }
public boolean addAll(final int index, LIST l) { synchronized(sync) { return list.addAll(index, l); } }
public boolean addAll(LIST l) { synchronized(sync) { return list.addAll(l); } }

public KEY_GENERIC_CLASS get(final int i) { synchronized(sync) { return list.get(i); } }
public void add(final int i, KEY_GENERIC_CLASS k) { synchronized(sync) { list.add(i, k); } }
public
KEY_GENERIC_CLASS set(final int index, KEY_GENERIC_CLASS k) { synchronized(sync) { return list.set(
index, k); } }
public KEY_GENERIC_CLASS remove(final int i) { synchronized(sync) { return list.remove(i); } }
public int indexOf(final Object o) { synchronized(sync) { return list.indexOf(o); } }
public int lastIndexOf(final Object o) { synchronized(sync) { return list.lastIndexOf(o); } }
#endif
}

/** Returns a synchronized type-specific list backed by the given type-specific list.
*
* @param l the list to be wrapped in a synchronized list.
* @return a synchronized view of the specified list.
* @see java.util.Collections#synchronizedList(List)
*/
public static KEY_GENERIC LIST KEY_GENERIC synchronize(final LIST KEY_GENERIC l) { return new
SynchronizedList KEY_GENERIC(l); }

/** Returns a synchronized type-specific list backed by the given type-specific list, using an assigned object to
synchronize.
*
* @param l the list to be wrapped
in a synchronized list.
* @param sync an object that will be used to synchronize the access to the list.
* @return a synchronized view of the specified list.
* @see java.util.Collections#synchronizedList(List)
*/
public static KEY_GENERIC LIST KEY_GENERIC synchronize(final LIST KEY_GENERIC l, final Object sync
) { return new SynchronizedList KEY_GENERIC(l, sync); }

/** An unmodifiable wrapper class for lists. */

public static class UnmodifiableList KEY_GENERIC extends COLLECTIONS.UnmodifiableCollection
KEY_GENERIC implements LIST KEY_GENERIC, java.io.Serializable {

private static final long serialVersionUID = -7046029254386353129L;

```



protected final LIST KEY\_GENERIC list; // Due to the large number of methods that are not in COLLECTION, this is worth caching.

```
protected UnmodifiableList(final LIST KEY_GENERIC l) {
 super(l);
 this.list = l;
}

public KEY_GENERIC_TYPE GET_KEY(final int i) { return list.GET_KEY(i); }
public KEY_GENERIC_TYPE set(
final int i, final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
public void add(final int i, final KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_TYPE REMOVE_KEY(final int i) { throw new UnsupportedOperationException(); }

public int indexOf(final KEY_TYPE k) { return list.indexOf(k); }
public int lastIndexOf(final KEY_TYPE k) { return list.lastIndexOf(k); }

public boolean addAll(final int index, final Collection<? extends KEY_GENERIC_CLASS> c) { throw new
UnsupportedOperationException(); }

public void getElements(final int from, final KEY_TYPE a[], final int offset, final int length) { list.getElements(
from, a, offset, length); }
public void removeElements(final int from, final int to) { throw new UnsupportedOperationException(); }
public void addElements(int index, final KEY_GENERIC_TYPE a[], int offset, int length) { throw new
UnsupportedOperationException(); }
public void addElements(
int index, final KEY_GENERIC_TYPE a[]) { throw new UnsupportedOperationException(); }
public void size(final int size) { list.size(size); }

public KEY_LIST_ITERATOR KEY_GENERIC iterator() { return listIterator(); }
public KEY_LIST_ITERATOR KEY_GENERIC listIterator() { return ITERATORS.unmodifiable(list.listIterator()
); }
public KEY_LIST_ITERATOR KEY_GENERIC listIterator(final int i) { return ITERATORS.unmodifiable(
list.listIterator(i)); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD() { return listIterator(); }

@Deprecated
public KEY_LIST_ITERATOR KEY_GENERIC KEY_LIST_ITERATOR_METHOD(final int i) { return
listIterator(i); }

public LIST KEY_GENERIC subList(final int from, final int to) { return unmodifiable(list.subList(from, to)); }

@Deprecated
public LIST KEY_GENERIC SUBLIST_METHOD(final int from, final int to) { return subList(from, to); }

public boolean equals(final Object o) { return collection.equals(
```

```

o); }
public int hashCode() { return collection.hashCode(); }

#if ! #keyclass(Reference)
public int compareTo(final List<? extends KEY_GENERIC_CLASS> o) { return list.compareTo(o); }
#endif

#if #keys(primitive)
public boolean addAll(final int index, final COLLECTION c) { throw new UnsupportedOperationException(); }
public boolean addAll(final LIST l) { throw new UnsupportedOperationException(); }
public boolean addAll(final int index, final LIST l) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS get(final int i) { return list.get(i); }
public void add(final int i, KEY_GENERIC_CLASS k) { throw new UnsupportedOperationException(); }
public KEY_GENERIC_CLASS set(final int index, KEY_GENERIC_CLASS k) { throw new
UnsupportedOperationException(); }
public KEY_GENERIC_CLASS remove(final int i) { throw new UnsupportedOperationException(); }
public int indexOf(final Object o) { return list.indexOf(o); }
public
int lastIndexOf(final Object o) { return list.lastIndexOf(o); }
#endif
}

/** Returns an unmodifiable type-specific list backed by the given type-specific list.
 *
 * @param l the list to be wrapped in an unmodifiable list.
 * @return an unmodifiable view of the specified list.
 * @see java.util.Collections#unmodifiableList(List)
 */
public static KEY_GENERIC LIST KEY_GENERIC unmodifiable(final LIST KEY_GENERIC l) { return new
UnmodifiableList KEY_GENERIC(l); }

#ifdef TEST

private static KEY_TYPE genKey() {
#if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
return r.NEXT_KEY();
#elif #keyclass(Object)
return Integer.toBinaryString(r.nextInt());
#else
return new java.io.Serializable() {};
#endif
}

```

```

private static void testLists(KEY_TYPE k, LIST m, List t, int level) {
 int n = 100;
 int c;

 long ms;
 boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement,
 mThrowsIndex, tThrowsIndex, mThrowsUnsupp, tThrowsUnsupp;
 boolean rt = false, rm = false;
 Object Rt = null, Rm = null;

 if (level == 0) return;

 /* Now we check that m and t are equal. */
 if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

 /* Now we check that m actually holds that data. */
 for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)");
 }

 /* Now we check that m actually holds that data, but iterating on m. */
 for(java.util.Iterator i=m.listIterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on m)"
);
 }

 /* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

 for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 m.contains(T);
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }

```

```

try {
 t.contains(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " ("
+ mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex) ensure(m.contains(KEY2OBJ(T)) ==
t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in keys between t and m (polymorphic
method) " + m);
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp
= tThrowsUnsupp = false;

 try {
 m.contains(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 t.contains(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): contains() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);

```

```

 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): contains() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): contains() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): contains() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(
m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence between t
and m (standard method) " + m);
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.add(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 rt = t.add(KEY2OBJ(T));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() divergence
in IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in add() between t and m " + m);

 T = genKey();
}

```

```

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

try {
 rm = m.remove(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException
e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 rt = t.remove(KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

if (! KEY_EQUALS(T, k) && mThrowsUnsupp && ! tThrowsUnsupp) mThrowsUnsupp = true; // Stupid bug in
Collections.singleton()

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" +
mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in remove() between t and m " + m);
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal " + m);

/* Now we add and remove random data in m and t at specific positions, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE
 T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

```

```

int pos = r.nextInt(2);

try {
 m.add(pos, KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 t.add(pos, KEY2OBJ(T));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): add() at " + pos + "
divergence in java.util.NoSuchElementException for
" + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): add() at " + pos + " divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);

T = genKey();

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

pos = r.nextInt(2);

try {
 Rm = m.remove(pos);
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement
= true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

try {
 Rt = t.remove(pos);
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }

```

```

catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(
mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): remove() at " + pos + " divergence
in UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(Rm == Rt ||
Rm != null && Rm.equals(Rt), "Error (" + level + ", " + seed + "): divergence in remove() at " + pos + " between t
and m " + m);
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal " + m);

/* Now we add and remove random collections in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE
 T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 try {
 rm = m.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 rt = t.addAll(java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }
}

```



```

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ") " + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in addAll() between t and m " + m);

```

```

T = genKey();

```

```

mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal
= tThrowsIllegal = mThrowsUnsupp = tThrowsUnsupp = false;

```

```

try {
rm = m.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

```

```

try {
rt = t.removeAll(java.util.Collections.singleton(KEY2OBJ(T)));
}
catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }
catch (IndexOutOfBoundsException e) { tThrowsIndex = true; }
catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

```

```

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): removeAll() divergence in
java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")
" + m);
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): removeAll() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): removeAll() divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): removeAll() divergence in
UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
if (!mThrowsNoElement && !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt,
"Error (" + level + ", " + seed + "): divergence in removeAll() between t and m " + m);
}

```

```

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after set removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after

```

```

set removal " + m);

/* Now we add random collections at specific positions in m and t, checking that the result is the same. */

for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();

 mThrowsIndex = tThrowsIndex = mThrowsNoElement = tThrowsNoElement = mThrowsIllegal = tThrowsIllegal =
mThrowsUnsupp = tThrowsUnsupp = false;

 int pos = r.nextInt(2);

 try {
 rm = m.addAll(pos, java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch (java.util.NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }
 catch (IndexOutOfBoundsException e) { mThrowsIndex = true; }
 catch (UnsupportedOperationException e) { mThrowsUnsupp = true; }

 try {
 rt = t.addAll(pos, java.util.Collections.singleton(KEY2OBJ(T)));
 }
 catch (java.util.NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }
 catch (IndexOutOfBoundsException
e) { tThrowsIndex = true; }
 catch (UnsupportedOperationException e) { tThrowsUnsupp = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): addAll() at " + pos + "
divergence in java.util.NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement
+ ") " + m);
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ") " + m);
 ensure(mThrowsIndex == tThrowsIndex, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence in
IndexOutOfBoundsException for " + T + " (" + mThrowsIndex + ", " + tThrowsIndex + ") " + m);
 ensure(mThrowsUnsupp == tThrowsUnsupp, "Error (" + level + ", " + seed + "): addAll() at " + pos + " divergence
in UnsupportedOperationException for " + T + " (" + mThrowsUnsupp + ", " + tThrowsUnsupp + ") " + m);
 if (!mThrowsNoElement
&& !mThrowsIllegal && !mThrowsIndex && !mThrowsUnsupp) ensure(rm == rt, "Error (" + level + ", " + seed
+ "): divergence in addAll() at " + pos + " between t and m " + m);

}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after set removal " + m);
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after set removal " + m);

/* Now we check that m actually holds the same data. */

```

```

for(java.util.Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(java.util.Iterator i=m.listIterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

if (m instanceof Singleton) {
 ensure(m.equals(((Singleton)m).clone()
), "Error (" + level + ", " + seed + "): m does not equal m.clone()");
 ensure(((Singleton)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m");
}

int h = m.hashCode();

/* Now we save and read m. */

LIST m2 = null;

try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

 oos.writeObject(m);
 oos.close();

 java.io.InputStream is = new java.io.FileInputStream(ff);
 java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

 m2 = (LIST)ois.readObject();
 ois.close();
 ff.delete();
}
catch(Exception e) {
 e.printStackTrace();
 System.exit(1);
}

#if ! #keyclass(Reference)

ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

```

```

/* Now we check that m2
actually holds that data. */

ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
#endif

if (! m.isEmpty()) {
 int start = r.nextInt(m.size());
 int end = start + r.nextInt(m.size() - start);
 //System.err.println("Checking subList from " + start + " to " + end + " (level=" + (level+1) + ")...");
 testLists(k, m.subList(start, end), t.subList(start, end), level - 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals(t) after subList");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subList");

}

return;
}

private static void test() {
 KEY_TYPE k = genKey();
 LIST m = new Singleton(k);
 List u = java.util.Collections.singletonList(KEY2OBJ(k));
 testLists(k, m, java.util.Collections.unmodifiableList(u), 3);
 System.out.println("Test
OK");
}

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition fp = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, fp).toString();
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {

```

```

if (cond) return;
fatal(msg);
}

/** This method expects as first argument a lower-cased type (e.g., "int"),
 * and as second optional argument a seed. */

public static void main(String arg[]) throws Exception {
if (arg.length > 1) r = new java.util.Random(seed = Long.parseLong(arg[1]));

try {
test();
} catch(Throwable e) {
e.printStackTrace(System.err
);
System.err.println("seed: " + seed);
}
}

#endif

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/Lists.drv

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

```

/*
 * Copyright (C) 2003-2015 Paolo Boldi and Sebastiano Vigna
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteHeapIndirectPriorityQueue.java

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/shorts/ShortIndirectPriorityQueue.java

\*  
/opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/bytes/ByteArrayPriorityQueue.java  
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\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/it/unimi/dsi/fastutil/AbstractIndirectDoublePriorityQueue.java  
\*

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jar/it/unimi/dsi/fastutil/int/IntArrayIndirectPriorityQueue.java
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-
jar/it/unimi/dsi/fastutil/AbstractIndirectPriorityQueue.java
No license file was found, but licenses were detected in source scan.
```

```
/*
 * Copyright (C) 2002-2015 Sebastiano Vigna
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Unless required by applicable law or agreed to in writing, software
 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
```

```
package PACKAGE;
```

```
import it.unimi.dsi.fastutil.objects.AbstractObjectSortedSet;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
import it.unimi.dsi.fastutil.objects.ObjectListIterator;
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;
```

```
import VALUE_PACKAGE.VALUE_COLLECTION;
import VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;
import
VALUE_PACKAGE.VALUE_ITERATOR;
```

```
import java.util.Comparator;
import java.util.Iterator;
import java.util.Map;
import java.util.SortedMap;
import java.util.NoSuchElementException;
```

```
#if #values(primitive)
import VALUE_PACKAGE.VALUE_LIST_ITERATOR;
#endif
```

```
/** A type-specific red-black tree map with a fast, small-footprint implementation.
 *
 * <P>The iterators provided by the views of this class are type-specific { @linkplain
 * it.unimi.dsi.fastutil.BidirectionalIterator bidirectional iterators}.
```

\* Moreover, the iterator returned by `iterator()` can be safely cast  
\* to a type-specific { @linkplain java.util.ListIterator list iterator}.  
\*  
\*/

```
public class RB_TREE_MAP KEY_VALUE_GENERIC extends ABSTRACT_SORTED_MAP
KEY_VALUE_GENERIC implements java.io.Serializable, Cloneable {
```

```
/** A reference to the root entry. */
```

```
protected transient Entry KEY_VALUE_GENERIC tree;
```

```
/** Number of entries in this map. */
```

```
protected int count;
```

```
/** The first
```

```
key in this map. */
```

```
protected transient Entry KEY_VALUE_GENERIC firstEntry;
```

```
/** The last key in this map. */
```

```
protected transient Entry KEY_VALUE_GENERIC lastEntry;
```

```
/** Cached set of entries. */
```

```
protected transient volatile ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> entries;
```

```
/** Cached set of keys. */
```

```
protected transient volatile SORTED_SET KEY_GENERIC keys;
```

```
/** Cached collection of values. */
```

```
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;
```

```
/** The value of this variable remembers, after a put()
```

```
* or a remove(), whether the domain of the map
```

```
* has been modified. */
```

```
protected transient boolean modified;
```

```
/** This map's comparator, as provided in the constructor. */
```

```
protected Comparator<? super KEY_GENERIC_CLASS> storedComparator;
```

```
/** This map's actual comparator; it may differ from { @link #storedComparator } because it is
always a type-specific comparator, so it could be derived from the former by wrapping.
```

```
*/
```

```
protected transient KEY_COMPARATOR KEY_SUPER_GENERIC actualComparator;
```

```
private static final long serialVersionUID = -7046029254386353129L;
```

```
private static final boolean ASSERTS = ASSERTS_VALUE;
```

```
{
```

```

allocatePaths();
}

/** Creates a new empty tree map.
 */

public RB_TREE_MAP() {
 tree = null;
 count = 0;
}

/** Generates the comparator that will be actually used.
 *
 * <P>When a specific { @link Comparator } is specified and stored in { @link
 * #storedComparator }, we must check whether it is type-specific. If it is
 * so, we can use it directly, and we store it in { @link #actualComparator }. Otherwise,
 * we generate on-the-fly an anonymous class that wraps the non-specific { @link Comparator }
 * and makes it into a type-specific one.
 */
private void setActualComparator() {
 #if #keyclass(Object)
 actualComparator = storedComparator;
 #else
 /* If the provided comparator is already type-specific, we use it. Otherwise,
 we use a wrapper anonymous class to fake
 that it is type-specific. */
 if (storedComparator == null || storedComparator instanceof KEY_COMPARATOR) actualComparator =
 (KEY_COMPARATOR)storedComparator;
 else actualComparator = new KEY_COMPARATOR KEY_SUPER_GENERIC() {
 public int compare(KEY_GENERIC_TYPE k1, KEY_GENERIC_TYPE k2) {
 return storedComparator.compare(KEY2OBJ(k1), KEY2OBJ(k2));
 }
 public int compare(KEY_GENERIC_CLASS ok1, KEY_GENERIC_CLASS ok2) {
 return storedComparator.compare(ok1, ok2);
 }
 };
 #endif
}

/** Creates a new empty tree map with the given comparator.
 *
 * @param c a (possibly type-specific) comparator.
 */

public RB_TREE_MAP(final Comparator<? super KEY_GENERIC_CLASS> c) {
 this();
 storedComparator = c;
}

```

```

setActualComparator();
}

/** Creates a new tree map copying a given map.
 *
 * @param m a {@link Map} to be copied into the new tree map.
 */

public RB_TREE_MAP(final Map<? extends KEY_GENERIC_CLASS, ? extends VALUE_GENERIC_CLASS>
m
) {
this();
putAll(m);
}

/** Creates a new tree map copying a given sorted map (and its {@link Comparator}).
 *
 * @param m a {@link SortedMap} to be copied into the new tree map.
 */

public RB_TREE_MAP(final SortedMap<KEY_GENERIC_CLASS,VALUE_GENERIC_CLASS> m) {
this(m.comparator());
putAll(m);
}

/** Creates a new tree map copying a given map.
 *
 * @param m a type-specific map to be copied into the new tree map.
 */

public RB_TREE_MAP(final MAP KEY_VALUE_EXTENDS_GENERIC m) {
this();
putAll(m);
}

/** Creates a new tree map copying a given sorted map (and its {@link Comparator}).
 *
 * @param m a type-specific sorted map to be copied into the new tree map.
 */

public RB_TREE_MAP(final SORTED_MAP KEY_VALUE_GENERIC m) {
this(m.comparator());
putAll(m);
}

/** Creates a new tree map using the elements of two parallel arrays and the given comparator.
 *

```

```

* @param k the array of keys of the new tree map.
* @param v the
array of corresponding values in the new tree map.
* @param c a (possibly type-specific) comparator.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

public RB_TREE_MAP(final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE v[], final
Comparator<? super KEY_GENERIC_CLASS> c) {
 this(c);
 if (k.length != v.length) throw new IllegalArgumentException("The key array and the value array have different
lengths (" + k.length + " and " + v.length + "));
 for(int i = 0; i < k.length; i++) this.put(k[i], v[i]);
}

/** Creates a new tree map using the elements of two parallel arrays.
*
* @param k the array of keys of the new tree map.
* @param v the array of corresponding values in the new tree map.
* @throws IllegalArgumentException if <code>k</code> and <code>v</code> have different lengths.
*/

public RB_TREE_MAP(final KEY_GENERIC_TYPE[] k, final VALUE_GENERIC_TYPE v[]) {
 this(k, v, null);
}

/*

* The following methods implements some basic building blocks used by
* all accessors. They are (and should be maintained) identical to those used in RBTreeSet.drv.
*
* The put()/remove() code is derived from Ben Pfaff's GNU libavl
* (http://www.msu.edu/~pfaffben/avl/). If you want to understand what's
* going on, you should have a look at the literate code contained therein
* first.
*/

/** Compares two keys in the right way.
*
* <P>This method uses the { @link #actualComparator} if it is non-<code>null</code>.
* Otherwise, it resorts to primitive type comparisons or to { @link Comparable#compareTo(Object) compareTo()}.
*
* @param k1 the first key.
* @param k2 the second key.
* @return a number smaller than, equal to or greater than 0, as usual
* (i.e., when k1 < k2, k1 = k2 or k1 > k2, respectively).
*/

```

```

SUPPRESS_WARNINGS_KEY_UNCHECKED
final int compare(final KEY_GENERIC_TYPE k1, final KEY_GENERIC_TYPE k2) {
 return actualComparator
 == null ? KEY_CMP(k1, k2) : actualComparator.compare(k1, k2);
}

/** Returns the entry corresponding to the given key, if it is in the tree; <code>>null</code>, otherwise.
 *
 * @param k the key to search for.
 * @return the corresponding entry, or <code>>null</code> if no entry with the given key exists.
 */

final Entry KEY_VALUE_GENERIC findKey(final KEY_GENERIC_TYPE k) {
 Entry KEY_VALUE_GENERIC e = tree;
 int cmp;

 while (e != null && (cmp = compare(k, e.key)) != 0) e = cmp < 0 ? e.left() : e.right();

 return e;
}

/** Locates a key.
 *
 * @param k a key.
 * @return the last entry on a search for the given key; this will be
 * the given key, if it present; otherwise, it will be either the smallest greater key or the greatest smaller key.
 */

final Entry KEY_VALUE_GENERIC locateKey(final KEY_GENERIC_TYPE k) {
 Entry KEY_VALUE_GENERIC e = tree, last = tree;
 int cmp = 0;

 while (e != null && (cmp = compare(k, e.key)) != 0) {
 last
 = e;
 e = cmp < 0 ? e.left() : e.right();
 }

 return cmp == 0 ? e : last;
}

/** This vector remembers the path and the direction followed during the
 * current insertion. It suffices for about 232 entries. */
private transient boolean dirPath[];
private transient Entry KEY_VALUE_GENERIC nodePath[];

```

```
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
```

```
private void allocatePaths() {
 dirPath = new boolean[64];
 nodePath = new Entry[64];
}
```

```
#if #values(primitive) && !#valueclass(Boolean)
```

```
/** Adds an increment to value currently associated with a key.
```

```
*
```

```
* <P>Note that this method respects the { @linkplain #defaultReturnValue() default return value } semantics: when
```

```
* called with a key that does not currently appears in the map, the key
```

```
* will be associated with the default return value plus
```

```
* the given increment.
```

```
*
```

```
* @param k the key.
```

```
* @param incr the increment.
```

```
* @return the old value, or the { @linkplain #defaultReturnValue() default return value } if
```

```
no value was present for the given key.
```

```
*/
```

```
public VALUE_GENERIC_TYPE addTo(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE incr) {
```

```
 Entry KEY_VALUE_GENERIC e = add(k);
```

```
 final VALUE_GENERIC_TYPE oldValue = e.value;
```

```
 e.value += incr;
```

```
 return oldValue;
```

```
}
```

```
#endif
```

```
public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
```

```
 Entry KEY_VALUE_GENERIC e = add(k);
```

```
 final VALUE_GENERIC_TYPE oldValue = e.value;
```

```
 e.value = v;
```

```
 return oldValue;
```

```
}
```

```
/** Returns a node with key k in the balanced tree, creating one with defRetVal if necessary.
```

```
*
```

```
* @param k the key
```

```
* @return a node with key k. If a node with key k already exists, then that node is returned,
```

```
* otherwise a new node with defRetVal is created ensuring that the tree is balanced
after creation of the node.
```

```
*/
```

```
private Entry KEY_VALUE_GENERIC add(final KEY_GENERIC_TYPE k) {
```

```
 /** After execution of this method, modified is true iff a new entry has
 been inserted. */
```

```
 modified
```

```
= false;
```

```
 int maxDepth = 0;
```



```

Entry KEY_VALUE_GENERIC e;

if (tree == null) { // The case of the empty tree is treated separately.
 count++;
 e = tree = lastEntry = firstEntry = new Entry KEY_VALUE_GENERIC(k, defRetVal);
}
else {
 Entry KEY_VALUE_GENERIC p = tree;
 int cmp, i = 0;

 while(true) {
 if ((cmp = compare(k, p.key)) == 0) {
 // We clean up the node path, or we could have stale references later.
 while(i-- != 0) nodePath[i] = null;
 return p;
 }

 nodePath[i] = p;

 if (dirPath[i++] = cmp > 0) {
 if (p.succ()) {
 count++;
 e = new Entry KEY_VALUE_GENERIC(k, defRetVal);

 if (p.right == null) lastEntry = e;

 e.left = p;
 e.right = p.right;

 p.right(e);

 break;
 }

 p = p.right;
 }
 else {
 if (p.pred()) {
 count++;
 e = new Entry KEY_VALUE_GENERIC(k, defRetVal);

 if
 (p.left == null) firstEntry = e;

 e.right = p;
 e.left = p.left;
 }
 }
 }
}

```

```

p.left(e);

break;
}

p = p.left;
}
}

modified = true;
maxDepth = i--;

while(i > 0 && ! nodePath[i].black()) {
if (! dirPath[i - 1]) {
Entry KEY_VALUE_GENERIC y = nodePath[i - 1].right;

if (! nodePath[i - 1].succ() && ! y.black()) {
nodePath[i].black(true);
y.black(true);
nodePath[i - 1].black(false);
i -= 2;
}
else {
Entry KEY_VALUE_GENERIC x;

if (! dirPath[i]) y = nodePath[i];
else {
x = nodePath[i];
y = x.right;
x.right = y.left;
y.left = x;
nodePath[i - 1].left = y;

if (y.pred()) {
y.pred(false);
x.succ(y);
}
}

x = nodePath[i - 1];
x.black(false);
y.black(true);

x.left = y.right;
y.right = x;
if (i < 2)
tree = y;
else {

```

```

if (dirPath[i - 2]) nodePath[i - 2].right = y;
else nodePath[i - 2].left = y;
}

if (y.succ()) {
 y.succ(false);
 x.pred(y);
}
break;
}
}
else {
 Entry KEY_VALUE_GENERIC y = nodePath[i - 1].left;

 if (! nodePath[i - 1].pred() && ! y.black()) {
 nodePath[i].black(true);
 y.black(true);
 nodePath[i - 1].black(false);
 i -= 2;
 }
 else {
 Entry KEY_VALUE_GENERIC x;

 if (dirPath[i]) y = nodePath[i];
 else {
 x = nodePath[i];
 y = x.left;
 x.left = y.right;
 y.right = x;
 nodePath[i - 1].right = y;

 if (y.succ()) {
 y.succ(false);
 x.pred(y);
 }
 }
 }

 x = nodePath[i - 1];
 x.black(false);
 y.black(true);

 x.right = y.left;
 y.left = x;
 if (i < 2) tree = y;
 else {
 if (dirPath[i - 2]

```

```

]) nodePath[i - 2].right = y;
 else nodePath[i - 2].left = y;
 }

 if (y.pred()){
 y.pred(false);
 x.succ(y);
 }

 break;
 }
 }
 }
}
tree.black(true);
// We clean up the node path, or we could have stale references later.
while(maxDepth-- != 0) nodePath[maxDepth] = null;
if (ASSERTS) {
 checkNodePath();
 checkTree(tree, 0, -1);
}
return e;
}

/* After execution of this method, { @link #modified } is true iff an entry
has been deleted. */

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE REMOVE_VALUE(final KEY_TYPE k) {
 modified = false;

 if (tree == null) return defRetVal;

 Entry KEY_VALUE_GENERIC p = tree;
 int cmp;
 int i = 0;
 final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;

 while(true) {
 if ((cmp = compare(kk, p.key)) == 0) break;

 dirPath[i] = cmp > 0;
 nodePath[i] = p;

 if (dirPath[i++]) {
 if ((p = p.right()) == null) {
 //

```

We clean up the node path, or we could have stale references later.

```
while(i-- != 0) nodePath[i] = null;
return defRetVal;
}
}
else {
if ((p = p.left()) == null) {
// We clean up the node path, or we could have stale references later.
while(i-- != 0) nodePath[i] = null;
return defRetVal;
}
}
}
```

```
if (p.left == null) firstEntry = p.next();
if (p.right == null) lastEntry = p.prev();
```

```
if (p.succ()) {
if (p.pred()) {
if (i == 0) tree = p.left;
else {
if (dirPath[i - 1]) nodePath[i - 1].succ(p.right);
else nodePath[i - 1].pred(p.left);
}
}
else {
p.prev().right = p.right;

if (i == 0) tree = p.left;
else {
if (dirPath[i - 1]) nodePath[i - 1].right = p.left;
else nodePath[i - 1].left = p.left;
}
}
}
else {
boolean color;
Entry KEY_VALUE_GENERIC r = p.right;

if (r.pred()) {
r.left = p.left;
r.pred(p.pred()
);
if (! r.pred()) r.prev().right = r;
if (i == 0) tree = r;
else {
if (dirPath[i - 1]) nodePath[i - 1].right = r;
```

```

else nodePath[i - 1].left = r;
}

color = r.black();
r.black(p.black());
p.black(color);
dirPath[i] = true;
nodePath[i++] = r;
}
else {
Entry KEY_VALUE_GENERIC s;
int j = i++;

while(true) {
dirPath[i] = false;
nodePath[i++] = r;
s = r.left;
if (s.pred()) break;
r = s;
}

dirPath[j] = true;
nodePath[j] = s;

if (s.succ()) r.pred(s);
else r.left = s.right;

s.left = p.left;

if (! p.pred()) {
p.prev().right = s;
s.pred(false);
}

s.right(p.right);

color = s.black();
s.black(p.black());
p.black(color);

if (j == 0) tree = s;
else {
if (dirPath[j - 1]) nodePath[j - 1].right = s;
else nodePath[j - 1].left = s;
}
}
}
}

```

```

int maxDepth = i;

if
(p.black()) {
for(; i > 0; i--) {
if (dirPath[i - 1] && ! nodePath[i - 1].succ() ||
! dirPath[i - 1] && ! nodePath[i - 1].pred()) {
Entry KEY_VALUE_GENERIC x = dirPath[i - 1] ? nodePath[i - 1].right : nodePath[i - 1].left;

if (! x.black()) {
x.black(true);
break;
}
}

if (! dirPath[i - 1]) {
Entry KEY_VALUE_GENERIC w = nodePath[i - 1].right;

if (! w.black()) {
w.black(true);
nodePath[i - 1].black(false);

nodePath[i - 1].right = w.left;
w.left = nodePath[i - 1];

if (i < 2) tree = w;
else {
if (dirPath[i - 2]) nodePath[i - 2].right = w;
else nodePath[i - 2].left = w;
}

nodePath[i] = nodePath[i - 1];
dirPath[i] = false;
nodePath[i - 1] = w;
if (maxDepth == i++) maxDepth++;

w = nodePath[i - 1].right;
}

if ((w.pred() || w.left.black()) &&
(w.succ() || w.right.black()
)) {
w.black(false);
}
else {
if (w.succ() || w.right.black()) {
Entry KEY_VALUE_GENERIC y = w.left;

```

```

y.black (true);
w.black(false);
w.left = y.right;
y.right = w;
w = nodePath[i - 1].right = y;

if (w.succ()) {
 w.succ(false);
 w.right.pred(w);
}
}

w.black(nodePath[i - 1].black());
nodePath[i - 1].black(true);
w.right.black(true);

nodePath[i - 1].right = w.left;
w.left = nodePath[i - 1];

if (i < 2) tree = w;
else {
 if (dirPath[i - 2]) nodePath[i - 2].right = w;
 else nodePath[i - 2].left = w;
}

if (w.pred()) {
 w.pred(false);
 nodePath[i - 1].succ(w);
}
break;
}
}
else {
 Entry KEY_VALUE_GENERIC w = nodePath[i - 1].left;

 if (! w.black()) {
 w.black (true);
 nodePath[i - 1].black(false
);

 nodePath[i - 1].left = w.right;
 w.right = nodePath[i - 1];

 if (i < 2) tree = w;
 else {
 if (dirPath[i - 2]) nodePath[i - 2].right = w;
 else nodePath[i - 2].left = w;
 }
}

```



```

nodePath[i] = nodePath[i - 1];
dirPath[i] = true;
nodePath[i - 1] = w;
if (maxDepth == i++) maxDepth++;

w = nodePath[i - 1].left;
}

if ((w.pred() || w.left.black()) &&
 (w.succ() || w.right.black())) {
 w.black(false);
}
else {
 if (w.pred() || w.left.black()) {
 Entry KEY_VALUE_GENERIC y = w.right;

 y.black(true);
 w.black (false);
 w.right = y.left;
 y.left = w;
 w = nodePath[i - 1].left = y;

 if (w.pred()) {
 w.pred(false);
 w.left.succ(w);
 }
 }

 w.black(nodePath[i - 1].black());
 nodePath[i - 1].black(true);
 w.left.black(true);

 nodePath[i - 1
].left = w.right;
 w.right = nodePath[i - 1];

 if (i < 2) tree = w;
 else {
 if (dirPath[i - 2]) nodePath[i - 2].right = w;
 else nodePath[i - 2].left = w;
 }

 if (w.succ()) {
 w.succ(false);
 nodePath[i - 1].pred(w);
 }
 break;
}

```

```

 }
 }
}

if (tree != null) tree.black(true);
}

modified = true;
count--;
// We clean up the node path, or we could have stale references later.
while(maxDepth-- != 0) nodePath[maxDepth] = null;
if (ASSERTS) {
 checkNodePath();
 checkTree(tree, 0, -1);
}
return p.value;
}

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov)
{
 final VALUE_GENERIC_TYPE oldValue = put(KEY_CLASS2TYPE(ok), VALUE_CLASS2TYPE(ov));
 return
 modified ? OBJECT_DEFAULT_RETURN_VALUE : VALUE2OBJ(oldValue);
}
#endif

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS remove(final Object ok) {
 final VALUE_GENERIC_TYPE oldValue = REMOVE_VALUE(KEY_OBJ2TYPE(ok));
 return modified ? VALUE2OBJ(oldValue) : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

public boolean containsValue(final VALUE_TYPE v) {
 final ValueIterator i = new ValueIterator();
 VALUE_TYPE ev;

```

```

int j = count;
while(j-- != 0) {
 ev = i.NEXT_VALUE();
 if (VALUE_EQUALS(ev, v)) return true;
}

return false;
}

```

```

public void clear() {
 count = 0;
 tree = null;
 entries = null;
 values = null;
 keys = null;
 firstEntry = lastEntry = null;
}

```

/\*\* This class represent an entry in a tree map.

\*

\* <P>We use the only "metadata", i.e., { @link Entry#info}, to store

\* information about

color, predecessor status and successor status.

\*

\* <P>Note that since the class is recursive, it can be

\* considered equivalently a tree.

\*/

private static final class Entry KEY\_VALUE\_GENERIC implements Cloneable, MAP.Entry

KEY\_VALUE\_GENERIC {

/\*\* The the bit in this mask is true, the node is black. \*/

private final static int BLACK\_MASK = 1;

/\*\* If the bit in this mask is true, { @link #right} points to a successor. \*/

private final static int SUCC\_MASK = 1 << 31;

/\*\* If the bit in this mask is true, { @link #left} points to a predecessor. \*/

private final static int PRED\_MASK = 1 << 30;

/\*\* The key of this entry. \*/

KEY\_GENERIC\_TYPE key;

/\*\* The value of this entry. \*/

VALUE\_GENERIC\_TYPE value;

/\*\* The pointers to the left and right subtrees. \*/

Entry KEY\_VALUE\_GENERIC left, right;

/\*\* This integers holds different information in different bits (see { @link #SUCC\_MASK} and { @link #PRED\_MASK}). \*/

int info;

```

Entry() {}

/** Creates a new entry
with the given key and value.
 *
 * @param k a key.
 * @param v a value.
 */
Entry(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 this.key = k;
 this.value = v;
 info = SUCC_MASK | PRED_MASK;
}

/** Returns the left subtree.
 *
 * @return the left subtree (<code>>null</code> if the left
 * subtree is empty).
 */
Entry KEY_VALUE_GENERIC left() {
 return (info & PRED_MASK) != 0 ? null : left;
}

/** Returns the right subtree.
 *
 * @return the right subtree (<code>>null</code> if the right
 * subtree is empty).
 */
Entry KEY_VALUE_GENERIC right() {
 return (info & SUCC_MASK) != 0 ? null : right;
}

/** Checks whether the left pointer is really a predecessor.
 * @return true if the left pointer is a predecessor.
 */
boolean pred() {
 return (info & PRED_MASK) != 0;
}

/** Checks whether the right pointer is really a successor.
 * @return true if the right pointer is a successor.
 */
boolean
succ() {
 return (info & SUCC_MASK) != 0;
}

```

```

/** Sets whether the left pointer is really a predecessor.
 * @param pred if true then the left pointer will be considered a predecessor.
 */
void pred(final boolean pred) {
 if (pred) info |= PRED_MASK;
 else info &= ~PRED_MASK;
}

/** Sets whether the right pointer is really a successor.
 * @param succ if true then the right pointer will be considered a successor.
 */
void succ(final boolean succ) {
 if (succ) info |= SUCC_MASK;
 else info &= ~SUCC_MASK;
}

/** Sets the left pointer to a predecessor.
 * @param pred the predecessr.
 */
void pred(final Entry KEY_VALUE_GENERIC pred) {
 info |= PRED_MASK;
 left = pred;
}

/** Sets the right pointer to a successor.
 * @param succ the successor.
 */
void succ(final Entry KEY_VALUE_GENERIC succ) {
 info |= SUCC_MASK;
 right = succ;
}

/** Sets the left pointer to the given subtree.
 * @param
left the new left subtree.
 */
void left(final Entry KEY_VALUE_GENERIC left) {
 info &= ~PRED_MASK;
 this.left = left;
}

/** Sets the right pointer to the given subtree.
 * @param right the new right subtree.
 */
void right(final Entry KEY_VALUE_GENERIC right) {
 info &= ~SUCC_MASK;
 this.right = right;
}

```

```

/** Returns whether this node is black.
 * @return true iff this node is black.
 */
boolean black() {
 return (info & BLACK_MASK) != 0;
}

/** Sets whether this node is black.
 * @param black if true, then this node becomes black; otherwise, it becomes red..
 */
void black(final boolean black) {
 if (black) info |= BLACK_MASK;
 else info &= ~BLACK_MASK;
}

/** Computes the next entry in the set order.
 *
 * @return the next entry (<code>null</code>) if this is the last entry).
 */

Entry KEY_VALUE_GENERIC next() {
 Entry KEY_VALUE_GENERIC next = this.right;
 if ((info & SUCC_MASK) == 0) while
 ((next.info & PRED_MASK) == 0) next = next.left;
 return next;
}

/** Computes the previous entry in the set order.
 *
 * @return the previous entry (<code>null</code>) if this is the first entry).
 */

Entry KEY_VALUE_GENERIC prev() {
 Entry KEY_VALUE_GENERIC prev = this.left;
 if ((info & PRED_MASK) == 0) while ((prev.info & SUCC_MASK) == 0) prev = prev.right;
 return prev;
}

#if #keys(primitive)
/** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#endif
public KEY_GENERIC_CLASS getKey() {
 return KEY2OBJ(key);
}

```

```

#if ! #keyclass(Object)
 public KEY_GENERIC_TYPE ENTRY_GET_KEY() {
 return key;
 }
#endif

#if #values(primitive)
 /** { @inheritDoc }
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
#endif
 public VALUE_GENERIC_CLASS getValue() {
 return VALUE2OBJ(value);
 }

#if #values(primitive)
 public VALUE_TYPE ENTRY_GET_VALUE()
 {
 return value;
 }
#endif

 public VALUE_GENERIC_TYPE setValue(final VALUE_GENERIC_TYPE value) {
 final VALUE_GENERIC_TYPE oldValue = this.value;
 this.value = value;
 return oldValue;
 }

#if #values(primitive)

 public VALUE_GENERIC_CLASS setValue(final VALUE_GENERIC_CLASS value) {
 return VALUE2OBJ(setValue(VALUE_CLASS2TYPE(value)));
 }

#endif

 SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
 public Entry KEY_VALUE_GENERIC clone() {
 Entry KEY_VALUE_GENERIC c;
 try {
 c = (Entry KEY_VALUE_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.key = key;

```

```

c.value = value;
c.info = info;

return c;
}

@SuppressWarnings("unchecked")
public boolean equals(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e = (Map.Entry <KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>)o;

 return KEY_EQUALS(
key, KEY_CLASS2TYPE(e.getKey())) && VALUE_EQUALS(value, VALUE_CLASS2TYPE(e.getValue())
);
}

public int hashCode() {
 return KEY2JAVAHASH_NOT_NULL(key) ^ VALUE2JAVAHASH(value);
}

public String toString() {
 return key + "=>" + value;
}

/*
public void prettyPrint() {
 prettyPrint(0);
}

public void prettyPrint(int level) {
 if (pred()) {
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println("pred: " + left);
 }
 else if (left != null)
 left.prettyPrint(level +1);
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println(key + "=" + value + " (" + balance() + ")");
 if (succ()) {
 for (int i = 0; i < level; i++)
 System.err.print(" ");
 System.err.println("succ: " + right);
 }
 else if (right != null)

```



```

 right.prettyPrint(level + 1);
 }*/
}

/*
public void prettyPrint() {
 System.err.println("size: " + count);
 if (tree
 != null) tree.prettyPrint();
 }*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey(final KEY_TYPE k) {
 return findKey(KEY_GENERIC_CAST k) != null;
}

public int size() {
 return count;
}

public boolean isEmpty() {
 return count == 0;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) {
 final Entry KEY_VALUE_GENERIC e = findKey(KEY_GENERIC_CAST k);
 return e == null ? defRetVal : e.value;
}

#if #keyclass(Object) && #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS get(final Object ok) {
 final Entry KEY_VALUE_GENERIC e = findKey(KEY_GENERIC_CAST ok);
 return e == null ? OBJECT_DEFAULT_RETURN_VALUE : e.getValue();
}

#endif

public KEY_GENERIC_TYPE FIRST_KEY() {
 if (tree == null) throw new NoSuchElementException();
 return firstEntry.key;
}

```

```

public
KEY_GENERIC_TYPE LAST_KEY() {
 if (tree == null) throw new NoSuchElementException();
 return lastEntry.key;
}

/** An abstract iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class TreeIterator {
 /** The entry that will be returned by the next call to { @link java.util.ListIterator#previous()} (or
 <code>null</code> if no previous entry exists). */
 Entry KEY_VALUE_GENERIC prev;
 /** The entry that will be returned by the next call to { @link java.util.ListIterator#next()} (or <code>null</code> if
 no next entry exists). */
 Entry KEY_VALUE_GENERIC next;
 /** The last entry that was returned (or <code>null</code> if we did not iterate or used { @link #remove()}). */
 Entry KEY_VALUE_GENERIC curr;
 /** The current index (in the sense of a { @link java.util.ListIterator}). Note that this value is not meaningful when
 this { @link TreeIterator} has been created using the nonempty constructor.*/
 int
 index = 0;

 TreeIterator() {
 next = firstEntry;
 }

 TreeIterator(final KEY_GENERIC_TYPE k) {
 if ((next = locateKey(k)) != null) {
 if (compare(next.key, k) <= 0) {
 prev = next;
 next = next.next();
 }
 else prev = next.prev();
 }
 }

 public boolean hasNext() { return next != null; }
 public boolean hasPrevious() { return prev != null; }

 void updateNext() {
 next = next.next();
 }
}

```

```

Entry KEY_VALUE_GENERIC nextEntry() {
 if (! hasNext()) throw new NoSuchElementException();
 curr = prev = next;
 index++;
 updateNext();
 return curr;
}

void updatePrevious() {
 prev = prev.prev();
}

Entry KEY_VALUE_GENERIC previousEntry() {
 if (! hasPrevious()) throw new NoSuchElementException();
 curr = next = prev;
 index--;
 updatePrevious();
 return curr;
}

public int nextIndex() {
 return index;
}

public int previousIndex() {
 return index - 1;
}

public void remove() {
 if (curr == null
) throw new IllegalStateException();
 /* If the last operation was a next(), we are removing an entry that preceeds
 the current index, and thus we must decrement it. */
 if (curr == prev) index--;
 next = prev = curr;
 updatePrevious();
 updateNext();
 RB_TREE_MAP.this.REMOVE_VALUE(curr.key);
 curr = null;
}

public int skip(final int n) {
 int i = n;
 while(i-- != 0 && hasNext()) nextEntry();
 return n - i - 1;
}

public int back(final int n) {

```

```

int i = n;
while(i-- != 0 && hasPrevious()) previousEntry();
return n - i - 1;
}
}

/** An iterator on the whole range.
 *
 * <P>This class can iterate in both directions on a threaded tree.
 */

private class EntryIterator extends TreeIterator implements ObjectListIterator<MAP.Entry
KEY_VALUE_GENERIC> {
 EntryIterator() {}

 EntryIterator(final KEY_GENERIC_TYPE k) {
 super(k);
 }

 public MAP.Entry KEY_VALUE_GENERIC next() { return nextEntry(); }
 public MAP.Entry
 KEY_VALUE_GENERIC previous() { return previousEntry(); }

 public void set(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
 public void add(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
}

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() {
 if (entries == null) entries = new AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>() {
 final Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator = new Comparator<MAP.Entry
KEY_VALUE_GENERIC> () {
 public int compare(final MAP.Entry KEY_VALUE_GENERIC x, MAP.Entry KEY_VALUE_GENERIC y) {
 return RB_TREE_MAP.this.actualComparator.compare(x.ENTRY_GET_KEY(), y.ENTRY_GET_KEY());
 }
 };
 };

 public Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator() {
 return comparator;
 }

 public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator() {
 return new EntryIterator();
 }

 public ObjectBidirectionalIterator<MAP.Entry

```

```

KEY_VALUE_GENERIC> iterator(final MAP.Entry KEY_VALUE_GENERIC from) {
 return new EntryIterator(from.ENTRY_GET_KEY());
}

@SuppressWarnings("unchecked")
public boolean contains(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final Entry KEY_VALUE_GENERIC f = findKey(KEY_CLASS2TYPE(e.getKey()));
 return e.equals(f);
}

@SuppressWarnings("unchecked")
public boolean remove(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final Entry KEY_VALUE_GENERIC f = findKey(KEY_CLASS2TYPE(e.getKey()));
 if (f != null) RB_TREE_MAP.this.REMOVE_VALUE(f.key);
 return f != null;
}

public int size() { return count; }
public
void clear() { RB_TREE_MAP.this.clear(); }

public MAP.Entry KEY_VALUE_GENERIC first() { return firstEntry; }
public MAP.Entry KEY_VALUE_GENERIC last() { return lastEntry; }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet(MAP.Entry KEY_VALUE_GENERIC
from, MAP.Entry KEY_VALUE_GENERIC to) { return subMap(from.ENTRY_GET_KEY(),
to.ENTRY_GET_KEY()).ENTRYSET(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet(MAP.Entry KEY_VALUE_GENERIC to
) { return headMap(to.ENTRY_GET_KEY()).ENTRYSET(); }
public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> tailSet(MAP.Entry KEY_VALUE_GENERIC
from) { return tailMap(from.ENTRY_GET_KEY()).ENTRYSET(); }
};

return entries;
}

/** An iterator on the whole range of keys.
 *
 * <P>This class can iterate in both directions on the keys of a threaded tree. We
 * simply override the {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and
 possibly
 *

```

their type-specific counterparts) so that they return keys instead of entries.

```
*/
private final class KeyIterator extends TreeIterator implements KEY_LIST_ITERATOR KEY_GENERIC {
 public KeyIterator() {}
 public KeyIterator(final KEY_GENERIC_TYPE k) { super(k); }
 public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key; }
 public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }

 public void set(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
 public void add(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }

 #if !#keyclass(Object)
 public KEY_GENERIC_CLASS next() { return KEY2OBJ(nextEntry().key); }
 public KEY_GENERIC_CLASS previous() { return KEY2OBJ(previousEntry().key); }
 public void set(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
 public void add(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
 #endif
};

/** A keyset implementation using a more direct implementation
for iterators. */
private class KeySet extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC.KeySet {
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new KeyIterator(); }
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) { return new
KeyIterator(from); }
}

/** Returns a type-specific sorted set view of the keys contained in this map.
*
* <P>In addition to the semantics of { @link java.util.Map#keySet() }, you can
* safely cast the set returned by this call to a type-specific sorted
* set interface.
*
* @return a type-specific sorted set view of the keys contained in this map.
*/
public SORTED_SET KEY_GENERIC keySet() {
 if (keys == null) keys = new KeySet();
 return keys;
}

/** An iterator on the whole range of values.
*
* <P>This class can iterate in both directions on the values of a threaded tree. We
* simply override the { @link java.util.ListIterator#next()}/{ @link java.util.ListIterator#previous() } methods (and
possibly
* their type-specific counterparts) so that they return values instead of entries.
*/
```

```

private final class ValueIterator extends TreeIterator implements VALUE_LIST_ITERATOR VALUE_GENERIC {
 public VALUE_GENERIC_TYPE NEXT_VALUE() { return nextEntry().value; }
 public VALUE_GENERIC_TYPE PREV_VALUE() { return previousEntry().value; }
 public void set(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }
 public void add(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }

#if #values(primitive)
 public VALUE_GENERIC_CLASS next() { return VALUE2OBJ(nextEntry().value); }
 public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ(previousEntry().value); }
 public void set(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
 public void add(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
#endif
};

/** Returns a type-specific collection view of the values contained in this map.
 *
 * <P>In addition
 * to the semantics of {@link java.util.Map#values()}, you can
 * safely cast the collection returned by this call to a type-specific collection
 * interface.
 *
 * @return a type-specific collection view of the values contained in this map.
 */

public VALUE_COLLECTION VALUE_GENERIC values() {
 if (values == null) values = new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {
 public VALUE_ITERATOR VALUE_GENERIC iterator() {
 return new ValueIterator();
 }
 };

 public boolean contains(final VALUE_TYPE k) {
 return containsValue(k);
 }

 public int size() {
 return count;
 }

 public void clear() {
 RB_TREE_MAP.this.clear();
 }

};

return values;
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {

```

```

return actualComparator;
}

public SORTED_MAP KEY_VALUE_GENERIC headMap(KEY_GENERIC_TYPE to) {
return new Submap(KEY_NULL, true, to, false);
}

public SORTED_MAP KEY_VALUE_GENERIC tailMap(KEY_GENERIC_TYPE
from) {
return new Submap(from, false, KEY_NULL, true);
}

public SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE to) {
return new Submap(from, false, to, false);
}

/** A submap with given range.
*
* <P>This class represents a submap. One has to specify the left/right
* limits (which can be set to $-\infty$; or ∞ ;). Since the submap is a
* view on the map, at a given moment it could happen that the limits of
* the range are not any longer in the main map. Thus, things such as
* { @link java.util.SortedMap#firstKey()} or { @link java.util.Collection#size()} must be always computed
* on-the-fly.
*/
private final class Submap extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC implements
java.io.Serializable {
private static final long serialVersionUID = -7046029254386353129L;

/** The start of the submap range, unless { @link #bottom} is true. */
KEY_GENERIC_TYPE from;
/** The end of the submap range, unless { @link #top}
is true. */
KEY_GENERIC_TYPE to;
/** If true, the submap range starts from $-\infty$. */
boolean bottom;
/** If true, the submap range goes to ∞ . */
boolean top;
/** Cached set of entries. */
@SuppressWarnings("hiding")
protected transient volatile ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> entries;
/** Cached set of keys. */
@SuppressWarnings("hiding")
protected transient volatile SORTED_SET KEY_GENERIC keys;
/** Cached collection of values. */
@SuppressWarnings("hiding")
protected transient volatile VALUE_COLLECTION VALUE_GENERIC values;

```



```

/** Creates a new submap with given key range.
 *
 * @param from the start of the submap range.
 * @param bottom if true, the first parameter is ignored and the range starts from -∞.
 * @param to the end of the submap range.
 * @param top if true, the third parameter is ignored and the range goes to ∞.
 */
public Submap(final KEY_GENERIC_TYPE from, final boolean bottom, final KEY_GENERIC_TYPE
to, final boolean top) {
 if (! bottom && ! top && RB_TREE_MAP.this.compare(from, to) > 0) throw new IllegalArgumentException(
"Start key (" + from + ") is larger than end key (" + to + ")");

 this.from = from;
 this.bottom = bottom;
 this.to = to;
 this.top = top;
 this.defRetValue = RB_TREE_MAP.this.defRetValue;
}

public void clear() {
 final SubmapIterator i = new SubmapIterator();
 while(i.hasNext()) {
 i.nextEntry();
 i.remove();
 }
}

/** Checks whether a key is in the submap range.
 * @param k a key.
 * @return true if is the key is in the submap range.
 */
final boolean in(final KEY_GENERIC_TYPE k) {
 return (bottom || RB_TREE_MAP.this.compare(k, from) >= 0) &&
(top || RB_TREE_MAP.this.compare(k, to) < 0);
}

public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> ENTRYSET() {
 if (entries == null) entries = new AbstractObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC>() {
 public ObjectBidirectionalIterator<MAP.Entry
KEY_VALUE_GENERIC> iterator() {
 return new SubmapEntryIterator();
 }

 public ObjectBidirectionalIterator<MAP.Entry KEY_VALUE_GENERIC> iterator(final MAP.Entry
KEY_VALUE_GENERIC from) {
 return new SubmapEntryIterator(from.ENTRY_GET_KEY());
 }
 }
}

```

```

 public Comparator<? super MAP.Entry KEY_VALUE_GENERIC> comparator() { return
RB_TREE_MAP.this.ENTRYSET().comparator(); }

 @SuppressWarnings("unchecked")
 public boolean contains(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS> e =
(Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final RB_TREE_MAP.Entry KEY_VALUE_GENERIC f = findKey(KEY_CLASS2TYPE(e.getKey()));
 return f != null && in(f.key) && e.equals(f);
 }

 @SuppressWarnings("unchecked")
 public boolean remove(final Object o) {
 if (!(o instanceof Map.Entry)) return false;
 final Map.Entry<KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS> e = (Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>)o;
 final RB_TREE_MAP.Entry KEY_VALUE_GENERIC f = findKey(KEY_CLASS2TYPE(e.getKey()));
 if (f != null && in(f.key)) Submap.this.REMOVE_VALUE(f.key);
 return f != null;
 }

 public int size() {
 int c = 0;
 for(Iterator<?> i = iterator(); i.hasNext(); i.next()) c++;
 return c;
 }

 public boolean isEmpty() { return ! new SubmapIterator().hasNext(); }
 public void clear() { Submap.this.clear(); }

 public MAP.Entry KEY_VALUE_GENERIC first() { return firstEntry(); }
 public MAP.Entry KEY_VALUE_GENERIC last() { return lastEntry(); }
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> subSet(MAP.Entry KEY_VALUE_GENERIC
from, MAP.Entry KEY_VALUE_GENERIC to) { return subMap(from.ENTRY_GET_KEY(),
to.ENTRY_GET_KEY()).ENTRYSET(); }
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> headSet(MAP.Entry KEY_VALUE_GENERIC
to) { return headMap(to.ENTRY_GET_KEY()).ENTRYSET(); }
 public ObjectSortedSet<MAP.Entry KEY_VALUE_GENERIC> tailSet(MAP.Entry KEY_VALUE_GENERIC
from) { return tailMap(from.ENTRY_GET_KEY()).ENTRYSET(); }
};

 return entries;
}

 private class KeySet extends ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC.KeySet {
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new SubmapKeyIterator(); }

```

```

 public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) { return new
SubmapKeyIterator(from); }
}

public SORTED_SET KEY_GENERIC keySet() {
 if (keys == null) keys = new KeySet();
 return keys;
}

public VALUE_COLLECTION VALUE_GENERIC values() {
 if (values == null) values = new VALUE_ABSTRACT_COLLECTION VALUE_GENERIC() {
 public VALUE_ITERATOR VALUE_GENERIC iterator() {
 return new SubmapValueIterator();
 }
 }

 public boolean contains(final VALUE_TYPE k) {
 return containsValue(k);
 }

 public int
size() {
 return Submap.this.size();
 }

 public void clear() {
 Submap.this.clear();
 }

};

return values;
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
public boolean containsKey(final KEY_TYPE k) {
 return in(KEY_GENERIC_CAST k) && RB_TREE_MAP.this.containsKey(k);
}

public boolean containsValue(final VALUE_TYPE v) {
 final SubmapIterator i = new SubmapIterator();
 VALUE_TYPE ev;

 while(i.hasNext()) {
 ev = i.nextEntry().value;
 if (VALUE_EQUALS(ev, v)) return true;
 }

 return false;
}

```

```
}
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE GET_VALUE(final KEY_TYPE k) {
 final RB_TREE_MAP.Entry KEY_VALUE_GENERIC e;
 final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST k;
 return in(kk) && (e = findKey(kk)) != null ? e.value : this.defRetVal;
}
```

```
#if #keyclass(Object) && #values(primitive)
```

```
/** {@inheritDoc}
```

```
 * @deprecated Please use the corresponding type-specific
method instead. */
```

```
@Deprecated
```

```
@Override
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_CLASS get(final Object ok) {
 final RB_TREE_MAP.Entry KEY_VALUE_GENERIC e;
 final KEY_GENERIC_TYPE kk = KEY_GENERIC_CAST KEY_OBJ2TYPE(ok);
 return in(kk) && (e = findKey(kk)) != null ? e.getValue() : OBJECT_DEFAULT_RETURN_VALUE;
}
```

```
#endif
```

```
public VALUE_GENERIC_TYPE put(final KEY_GENERIC_TYPE k, final VALUE_GENERIC_TYPE v) {
 modified = false;
 if (! in(k)) throw new IllegalArgumentException("Key (" + k + ") out of range [" + (bottom ? "-" :
String.valueOf(from)) + ", " + (top ? "-" : String.valueOf(to)) + "]");
 final VALUE_GENERIC_TYPE oldValue = RB_TREE_MAP.this.put(k, v);
 return modified ? this.defRetVal : oldValue;
}
```

```
#if ! #keyclass(Object) || #values(primitive)
```

```
/** {@inheritDoc}
```

```
 * @deprecated Please use the corresponding type-specific method instead. */
```

```
@Deprecated
```

```
@Override
```

```
public VALUE_GENERIC_CLASS
put(final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov) {
 final VALUE_GENERIC_TYPE oldValue = put(KEY_CLASS2TYPE(ok), VALUE_CLASS2TYPE(ov));
 return modified ? OBJECT_DEFAULT_RETURN_VALUE : VALUE2OBJ(oldValue);
}
```

```
#endif
```

```
SUPPRESS_WARNINGS_KEY_UNCHECKED
public VALUE_GENERIC_TYPE REMOVE_VALUE(final KEY_TYPE k) {
```

```

modified = false;
if (! in(KEY_GENERIC_CAST k)) return this.defRetVal;
final VALUE_GENERIC_TYPE oldValue = RB_TREE_MAP.this.REMOVE_VALUE(k);
return modified ? oldValue : this.defRetVal;
}

#if ! #keyclass(Object) || #values(primitive)
/** { @inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
@Override
public VALUE_GENERIC_CLASS remove(final Object ok) {
final VALUE_GENERIC_TYPE oldValue = REMOVE_VALUE(KEY_OBJ2TYPE(ok));
return modified ? VALUE2OBJ(oldValue) : OBJECT_DEFAULT_RETURN_VALUE;
}
#endif

public int size() {
final SubmapIterator i = new SubmapIterator();
int
n = 0;

while(i.hasNext()) {
n++;
i.nextEntry();
}

return n;
}

public boolean isEmpty() {
return ! new SubmapIterator().hasNext();
}

public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() {
return actualComparator;
}

public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_TYPE to) {
if (top) return new Submap(from, bottom, to, false);
return compare(to, this.to) < 0 ? new Submap(from, bottom, to, false) : this;
}

public SORTED_MAP KEY_VALUE_GENERIC tailMap(final KEY_GENERIC_TYPE from) {
if (bottom) return new Submap(from, false, to, top);
return compare(from, this.from) > 0 ? new Submap(from, false, to, top) : this;
}

```

```

public SORTED_MAP KEY_VALUE_GENERIC subMap(KEY_GENERIC_TYPE from,
KEY_GENERIC_TYPE to) {
 if (top && bottom) return new Submap(from, false, to, false);
 if (! top) to = compare(to, this.to) < 0 ? to : this.to;
 if (! bottom)
from = compare(from, this.from) > 0 ? from : this.from;
 if (! top && ! bottom && from == this.from && to == this.to) return this;
 return new Submap(from, false, to, false);
}

/** Locates the first entry.
 *
 * @return the first entry of this submap, or <code>null</code> if the submap is empty.
 */
public RB_TREE_MAP.Entry KEY_VALUE_GENERIC firstEntry() {
 if (tree == null) return null;
 // If this submap goes to -infinity, we return the main map first entry; otherwise, we locate the start of the map.
 RB_TREE_MAP.Entry KEY_VALUE_GENERIC e;
 if (bottom) e = firstEntry();
 else {
 e = locateKey(from);
 // If we find either the start or something greater we're OK.
 if (compare(e.key, from) < 0) e = e.next();
 }
 // Finally, if this submap doesn't go to infinity, we check that the resulting key isn't greater than the end.
 if (e == null || ! top && compare(e.key, to) >= 0) return null;
 return e;
}

/** Locates the last
entry.
 *
 * @return the last entry of this submap, or <code>null</code> if the submap is empty.
 */
public RB_TREE_MAP.Entry KEY_VALUE_GENERIC lastEntry() {
 if (tree == null) return null;
 // If this submap goes to infinity, we return the main map last entry; otherwise, we locate the end of the map.
 RB_TREE_MAP.Entry KEY_VALUE_GENERIC e;
 if (top) e = lastEntry();
 else {
 e = locateKey(to);
 // If we find something smaller than the end we're OK.
 if (compare(e.key, to) >= 0) e = e.prev();
 }
 // Finally, if this submap doesn't go to -infinity, we check that the resulting key isn't smaller than the start.
 if (e == null || ! bottom && compare(e.key, from) < 0) return null;
 return e;
}

```

```

 }

 public KEY_GENERIC_TYPE FIRST_KEY() {
 RB_TREE_MAP.Entry KEY_VALUE_GENERIC e = firstEntry();
 if (e == null) throw new NoSuchElementException();
 return e.key;
 }

 public KEY_GENERIC_TYPE LAST_KEY() {
 RB_TREE_MAP.Entry KEY_VALUE_GENERIC
e = lastEntry();
 if (e == null) throw new NoSuchElementException();
 return e.key;
 }

 #if !#keyclass(Object)
 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 @Override
 public KEY_GENERIC_CLASS firstKey() {
 RB_TREE_MAP.Entry KEY_VALUE_GENERIC e = firstEntry();
 if (e == null) throw new NoSuchElementException();
 return e.getKey();
 }

 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 @Override
 public KEY_GENERIC_CLASS lastKey() {
 RB_TREE_MAP.Entry KEY_VALUE_GENERIC e = lastEntry();
 if (e == null) throw new NoSuchElementException();
 return e.getKey();
 }
 #endif

 /** An iterator for subranges.
 *
 * <P>This class inherits from { @link TreeIterator}, but overrides the methods that
 * update the pointer after a { @link java.util.ListIterator#next()} or { @link java.util.ListIterator#previous()}. If we
 would
 * move
 out of the range of the submap we just overwrite the next or previous
 * entry with <code>null</code>.
 */
 private class SubmapIterator extends TreeIterator {
 SubmapIterator() {
 next = firstEntry();
 }
 }

```

```

}

SubmapIterator(final KEY_GENERIC_TYPE k) {
 this();

 if (next != null) {
 if (! bottom && compare(k, next.key) < 0) prev = null;
 else if (! top && compare(k, (prev = lastEntry()).key) >= 0) next = null;
 else {
 next = locateKey(k);

 if (compare(next.key, k) <= 0) {
 prev = next;
 next = next.next();
 }
 else prev = next.prev();
 }
 }

 void updatePrevious() {
 prev = prev.prev();
 if (! bottom && prev != null && RB_TREE_MAP.this.compare(prev.key, from) < 0) prev = null;
 }

 void updateNext() {
 next = next.next();
 if (! top && next != null && RB_TREE_MAP.this.compare(next.key, to) >= 0) next = null;
 }

 private class SubmapEntryIterator
 extends SubmapIterator implements ObjectListIterator<MAP.Entry KEY_VALUE_GENERIC> {
 SubmapEntryIterator() {}

 SubmapEntryIterator(final KEY_GENERIC_TYPE k) {
 super(k);
 }

 public MAP.Entry KEY_VALUE_GENERIC next() { return nextEntry(); }
 public MAP.Entry KEY_VALUE_GENERIC previous() { return previousEntry(); }

 public void set(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
 public void add(MAP.Entry KEY_VALUE_GENERIC ok) { throw new UnsupportedOperationException(); }
 }

 /** An iterator on a subrange of keys.

```



```

*
* <P>This class can iterate in both directions on a subrange of the
* keys of a threaded tree. We simply override the {@link
* java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and possibly their
* type-specific counterparts) so that they return keys instead of
* entries.
*/
private final class SubmapKeyIterator extends SubmapIterator implements KEY_LIST_ITERATOR
KEY_GENERIC {
 public SubmapKeyIterator() { super(); }
 public SubmapKeyIterator(KEY_GENERIC_TYPE from) { super(from); }
 public KEY_GENERIC_TYPE NEXT_KEY() { return nextEntry().key; }
 public KEY_GENERIC_TYPE PREV_KEY() { return previousEntry().key; }
 public void set(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
 public void add(KEY_GENERIC_TYPE k) { throw new UnsupportedOperationException(); }
#if !#keyclass(Object)
 public KEY_GENERIC_CLASS next() { return KEY2OBJ(nextEntry().key); }
 public KEY_GENERIC_CLASS previous() { return KEY2OBJ(previousEntry().key); }
 public void set(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
 public void add(KEY_CLASS ok) { throw new UnsupportedOperationException(); }
#endif
};

/** An iterator on a subrange of values.
*
* <P>This class can iterate in both directions on the values of a
* subrange of the keys of a threaded tree. We simply override
the
* {@link java.util.ListIterator#next()}/{@link java.util.ListIterator#previous()} methods (and possibly their
* type-specific counterparts) so that they return values instead of
* entries.
*/
private final class SubmapValueIterator extends SubmapIterator implements VALUE_LIST_ITERATOR
VALUE_GENERIC {
 public VALUE_GENERIC_TYPE NEXT_VALUE() { return nextEntry().value; }
 public VALUE_GENERIC_TYPE PREV_VALUE() { return previousEntry().value; }
 public void set(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }
 public void add(VALUE_GENERIC_TYPE v) { throw new UnsupportedOperationException(); }

#if #values(primitive)
 public VALUE_GENERIC_CLASS next() { return VALUE2OBJ(nextEntry().value); }
 public VALUE_GENERIC_CLASS previous() { return VALUE2OBJ(previousEntry().value); }
 public void set(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
 public void add(VALUE_CLASS ok) { throw new UnsupportedOperationException(); }
}
#endif
};

```

```

}

/** Returns a deep copy of this tree map.
 *
 * <P>This method performs a deep copy of this tree map; the data stored in the
 * set, however, is not cloned. Note that this makes a difference only for object keys.
 *
 * @return a deep copy of this tree map.
 */

SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
public RB_TREE_MAP KEY_VALUE_GENERIC clone() {
 RB_TREE_MAP KEY_VALUE_GENERIC c;
 try {
 c = (RB_TREE_MAP KEY_VALUE_GENERIC)super.clone();
 }
 catch(CloneNotSupportedException cantHappen) {
 throw new InternalError();
 }

 c.keys = null;
 c.values = null;
 c.entries = null;
 c.allocatePaths();

 if (count != 0) {
 // Also this apparently unfathomable code is derived from GNU libavl.
 Entry KEY_VALUE_GENERIC e, p, q, rp = new Entry KEY_VALUE_GENERIC(), rq = new Entry
 KEY_VALUE_GENERIC();

 p = rp;
 rp.left(tree);

 q = rq;
 rq.pred(null);

 while(true) {
 if (! p.pred()) {
 e = p.left.clone();
 e.pred(
 q.left);
 e.succ(q);
 q.left(e);

 p = p.left;
 q = q.left;
 }
 }
 }
}

```

```

 }
 else {
 while(p.succ()) {
 p = p.right;

 if (p == null) {
 q.right = null;
 c.tree = rq.left;

 c.firstEntry = c.tree;
 while(c.firstEntry.left != null) c.firstEntry = c.firstEntry.left;
 c.lastEntry = c.tree;
 while(c.lastEntry.right != null) c.lastEntry = c.lastEntry.right;

 return c;
 }
 q = q.right;
 }

 p = p.right;
 q = q.right;
 }

 if (! p.succ()) {
 e = p.right.clone();
 e.succ(q.right);
 e.pred(q);
 q.right(e);
 }
}

return c;
}

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 int n = count;
 EntryIterator i = new EntryIterator();
 Entry KEY_VALUE_GENERIC e;

 s.defaultWriteObject();

 while(n-- != 0) {
 e = i.nextEntry();
 s.WRITE_KEY(e.key);
 s.WRITE_VALUE(e.value);
 }
}

```

```

}

/** Reads
the given number of entries from the input stream, returning the corresponding tree.
*
* @param s the input stream.
* @param n the (positive) number of entries to read.
* @param pred the entry containing the key that precedes the first key in the tree.
* @param succ the entry containing the key that follows the last key in the tree.
*/
SUPPRESS_WARNINGS_KEY_VALUE_UNCHECKED
private Entry KEY_VALUE_GENERIC readTree(final java.io.ObjectInputStream s, final int n, final Entry
KEY_VALUE_GENERIC pred, final Entry KEY_VALUE_GENERIC succ) throws java.io.IOException,
ClassNotFoundException {
 if (n == 1) {
 final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC(KEY_GENERIC_CAST
s.READ_KEY(), VALUE_GENERIC_CAST s.READ_VALUE());
 top.pred(pred);
 top.succ(succ);
 top.black(true);

 return top;
 }

 if (n == 2) {
 /* We handle separately this case so that recursion will
 always be on nonempty subtrees. */
 final Entry KEY_VALUE_GENERIC top
= new Entry KEY_VALUE_GENERIC(KEY_GENERIC_CAST s.READ_KEY(), VALUE_GENERIC_CAST
s.READ_VALUE());
 top.black(true);
 top.right(new Entry KEY_VALUE_GENERIC(KEY_GENERIC_CAST s.READ_KEY(),
VALUE_GENERIC_CAST s.READ_VALUE()));
 top.right.pred(top);
 top.pred(pred);
 top.right.succ(succ);

 return top;
 }

 // The right subtree is the largest one.
 final int rightN = n / 2, leftN = n - rightN - 1;

 final Entry KEY_VALUE_GENERIC top = new Entry KEY_VALUE_GENERIC();

 top.left(readTree(s, leftN, pred, top));

```

```

top.key = KEY_GENERIC_CAST s.READ_KEY();
top.value = VALUE_GENERIC_CAST s.READ_VALUE();
top.black(true);

top.right(readTree(s, rightN, top, succ));

if (n + 2 == ((n + 2) & -(n + 2))) top.right.black(false); // Quick test for determining whether n + 2 is a power
of 2.

return top;
}

private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
s.defaultReadObject();
/*
The storedComparator is now correctly set, but we must restore
on-the-fly the actualComparator. */
setActualComparator();
allocatePaths();

if (count != 0) {
tree = readTree(s, count, null, null);
Entry KEY_VALUE_GENERIC e;

e = tree;
while(e.left() != null) e = e.left();
firstEntry = e;

e = tree;
while(e.right() != null) e = e.right();
lastEntry = e;
}

if (ASSERTS) checkTree(tree, 0, -1);

}

#ifdef ASSERTS_CODE
private void checkNodePath() {
for(int i = nodePath.length; i-- != 0;) assert nodePath[i] == null : i;
}

private static KEY_VALUE_GENERIC int checkTree(Entry KEY_VALUE_GENERIC e, int d, int D) {
if (e == null) return 0;
if (e.black()) d++;
if (e.left() != null) D = checkTree(e.left(), d, D);
if (e.right() != null) D = checkTree(e.right(), d, D);
if (e.left() == null && e.right() == null) {

```

```

 if (D == -1) D = d;
 else if (D != d) throw new AssertionError("Mismatch between number
of black nodes (" + D + " and " + d + ")");
 }
 return D;
 }
#else
private void checkNodePath() {}
@SuppressWarnings("unused")
private static KEY_VALUE_GENERIC int checkTree(Entry KEY_VALUE_GENERIC e, int d, int D) { return 0;
}
#endif

```

```

#ifdef TEST

```

```

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

```

```

private static KEY_TYPE genKey() {
#ifdef #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
#elif #keys(primitive)
 return r.NEXT_KEY();
#else
 return Integer.toBinaryString(r.nextInt());
#endif
}

```

```

private static VALUE_TYPE genValue() {
#ifdef #valueclass(Byte) || #valueclass(Short) || #valueclass(Character)
 return (VALUE_TYPE)(r.nextInt());
#elif #values(primitive)
 return r.NEXT_VALUE();
#elif !#valueclass(Reference) || #keyclass(Reference)
 return Integer.toBinaryString(r.nextInt());
#else
 return new java.io.Serializable() {};
#endif
}

```

```

private
static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

```

```

private static String format(double d) {

```

```

StringBuffer s = new StringBuffer();
return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {
int i, j;
RB_TREE_MAP m;
java.util.TreeMap t;
KEY_TYPE k[] = new KEY_TYPE[n];
KEY_TYPE nk[] = new KEY_TYPE[n];
VALUE_TYPE v[] = new VALUE_TYPE[n];
long ms;

for(i = 0; i < n; i++) {
k[i] = genKey();
nk[i] = genKey();
v[i] = genValue();
}

double totPut = 0, totYes = 0, totNo = 0, totAddTo = 0, totIterFor = 0, totIterBack = 0, totRemYes = 0, d, dd, ddd;

if (comp) { for(j = 0; j < 20; j++) {

t = new java.util.TreeMap();

/* We first add all pairs to t. */
for(i = 0; i < n; i++) t.put(KEY2OBJ(k[i]), VALUE2OBJ(v[i]));

/* Then we remove the first half and put it back. */
for(i = 0;
i < n/2; i++) t.remove(KEY2OBJ(k[i]));

ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) t.put(KEY2OBJ(k[i]), VALUE2OBJ(v[i]));
d = System.currentTimeMillis() - ms;

/* Then we remove the other half and put it back again. */
ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) t.remove(KEY2OBJ(k[i]));
dd = System.currentTimeMillis() - ms ;

ms = System.currentTimeMillis();
for(i = n/2; i < n; i++) t.put(KEY2OBJ(k[i]), VALUE2OBJ(v[i]));
d += System.currentTimeMillis() - ms;
if (j > 2) totPut += n/d;
System.out.print("Add: " + format(n/d) +" K/s ");
}
}

```

```

/* Then we remove again the first half. */
ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) t.remove(KEY2OBJ(k[i]));
dd += System.currentTimeMillis() - ms ;
if (j > 2) totRemYes += n/dd;
System.out.print("RemYes: " + format(n/dd) + " K/s ");

/* And then we put it back. */
for(i = 0; i < n/2; i++) t.put(
KEY2OBJ(k[i]), VALUE2OBJ(v[i]));

#if #values(primitive) && !#valueclass(Boolean)
/* we perform n/2 addTo() operations with get then put */
ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) t.put(KEY2OBJ(k[i]), (VALUE_TYPE) ((VALUE_CLASS) t.get(KEY2OBJ(k[i])) +
i));
ddd = System.currentTimeMillis() - ms;
if (j > 2) totAddTo += n/ddd;
System.out.print("AddTo: " + format(n/ddd) + " K/s ");
#endif

/* We check for pairs in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.containsKey(KEY2OBJ(k[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + " K/s ");

/* We check for pairs not in t. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) t.containsKey(KEY2OBJ(nk[i]));
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totNo += d;
System.out.print("No: "
+ format(d) + " K/s ");

/* We iterate on t. */
ms = System.currentTimeMillis();
for(Iterator it = t.entrySet().iterator(); it.hasNext(); it.next());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterFor += d;
System.out.print("IterFor: " + format(d) + " K/s ");

System.out.println();
}

System.out.println();
System.out.println("java.util Put: " + format(totPut/(j-3)) + " K/s RemYes: " + format(totRemYes/(j-3)) + " K/s

```



```
Yes: " + format(totYes/(j-3)) + " K/s No: " + format(totNo/(j-3)) + " K/s AddTo: " + format(totAddTo/(j-3)) + "
K/s IterFor: " + format(totIterFor/(j-3)) + " K/s");
```

```
System.out.println();
```

```
t = null;
```

```
totPut = totYes = totNo = totIterFor = totIterBack = totRemYes = 0;
```

```
}
```

```
for(j = 0; j < 20; j++) {
```

```
 m = new RB_TREE_MAP();
```

```
 /* We first add all pairs to m. */
```

```
 for(i = 0; i < n; i++) m.put(k[i], v[i]);
```

```
 /* Then we remove the first half and put it back. */
```

```
 for(i = 0; i <
n/2; i++) m.remove(k[i]);
```

```
 ms = System.currentTimeMillis();
```

```
 for(i = 0; i < n/2; i++) m.put(k[i], v[i]);
```

```
 d = System.currentTimeMillis() - ms;
```

```
 /* Then we remove the other half and put it back again. */
```

```
 ms = System.currentTimeMillis();
```

```
 for(i = n/2; i < n; i++) m.remove(k[i]);
```

```
 dd = System.currentTimeMillis() - ms ;
```

```
 ms = System.currentTimeMillis();
```

```
 for(i = n/2; i < n; i++) m.put(k[i], v[i]);
```

```
 d += System.currentTimeMillis() - ms;
```

```
 if (j > 2) totPut += n/d;
```

```
 System.out.print("Add: " + format(n/d) + " K/s ");
```

```
 /* Then we remove again the first half. */
```

```
 ms = System.currentTimeMillis();
```

```
 for(i = 0; i < n/2; i++) m.remove(k[i]);
```

```
 dd += System.currentTimeMillis() - ms ;
```

```
 if (j > 2) totRemYes += n/dd;
```

```
 System.out.print("RemYes: " + format(n/dd) + " K/s ");
```

```
 /* And then we put it back. */
```

```
 for(i = 0; i < n/2; i++) m.put(k[i], v[i]);
```

```
 #if #values(primitive) && !#valueclass(Boolean)
```

```

/* we
perform n/2 addTo() operations with get then put */
ms = System.currentTimeMillis();
for(i = 0; i < n/2; i++) m.addTo(k[i], (VALUE_TYPE) i);
ddd = System.currentTimeMillis() - ms;
if (j > 2) totAddTo += n/ddd;
System.out.print("AddTo: " + format(n/ddd) + " K/s ");
#endif

/* We check for pairs in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.containsKey(k[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totYes += d;
System.out.print("Yes: " + format(d) + " K/s ");

/* We check for pairs not in m. */
ms = System.currentTimeMillis();
for(i = 0; i < n; i++) m.containsKey(nk[i]);
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totNo += d;
System.out.print("No: " + format(d) + " K/s ");

/* We iterate on m. */
java.util.ListIterator it = (java.util.ListIterator)m.entrySet().iterator();
ms = System.currentTimeMillis();
for(;
it.hasNext(); it.next());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterFor += d;
System.out.print("IterFor: " + format(d) + " K/s ");

/* We iterate back on m. */
ms = System.currentTimeMillis();
for(; it.hasPrevious(); it.previous());
d = 1.0 * n / (System.currentTimeMillis() - ms);
if (j > 2) totIterBack += d;
System.out.print("IterBack: " + format(d) + " K/s ");

System.out.println();
}

System.out.println();
System.out.println("fastutil Put: " + format(totPut/(j-3)) + " K/s RemYes: " + format(totRemYes/(j-3)) + " K/s
Yes: " + format(totYes/(j-3)) + " K/s No: " + format(totNo/(j-3)) + "K/s AddTo: " + format(totAddTo/(j-3)) + "
K/s IterFor: " + format(totIterFor/(j-3)) + " K/s ");

```

```

System.out.println();

}

private static boolean valEquals(Object o1, Object o2) {
 return o1 == null ? o2 == null : o1.equals(o2);
}

private static void fatal(String msg) {
 System.out.println(
msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static VALUE_TYPE vt[];
private static RB_TREE_MAP topMap;

protected static void testMaps(SORTED_MAP m, SortedMap t, int n, int level) {
 long ms;
 boolean mThrowsIllegal, tThrowsIllegal, mThrowsNoElement, tThrowsNoElement;
 Object rt = null, rm = null;

 if (level > 4) return;

 /* Now we check that both maps agree on first/last keys. */

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.firstKey();
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 try {
 t.firstKey();
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence at

```

```

start in
NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
if (! mThrowsNoElement) ensure(t.firstKey().equals(m.firstKey()), "Error (" + level + ", " + seed + "): m and t
differ at start on their first key (" + m.firstKey() + ", " + t.firstKey() +")");

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.lastKey();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try {
 t.lastKey();
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence at
start in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

if (! mThrowsNoElement) ensure(t.lastKey().equals(m.lastKey()), "Error (" + level + ", " + seed + "): m and t
differ at start on their last key (" + m.lastKey() + ", " + t.lastKey() +")");

/* Now we check that m and t are
equal. */
if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

/* Now we check that m actually holds that data. */
for(Iterator i=t.entrySet().iterator(); i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 ensure(valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.entrySet().iterator(); i.hasNext();) {
 Entry e = (Entry)i.next();
 ensure(valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after insertion (iterating on m)");
}

/* Now we check that m actually holds

```

```

the same keys. */
for(Iterator i=t.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ") after insertion
(iterating on t)");
 ensure(m.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ", in keySet()) after
insertion (iterating on t)");
}

/* Now we check that m actually holds the same keys, but iterating on m. */
for(Iterator i=m.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after insertion (iterating on m)"
);
 ensure(t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after insertion
(iterating on m)");
}

/* Now we check that m actually hold the same values. */
for(Iterator i=t.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(m.containsValue(o),
"Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on t)");
 ensure(m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on t)");
}

/* Now we check that m actually hold the same values, but iterating on m. */
for(Iterator i=m.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after insertion (iterating on
m)");
 ensure(t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
insertion (iterating on m)");
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.containsKey(KEY2OBJ(T));
 }

```

```

catch
(NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }

try {
t.containsKey(KEY2OBJ(T));
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): containsKey() divergence
in NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): containsKey() divergence in
IllegalArgumentException (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
if (!mThrowsNoElement && !mThrowsIllegal) {
ensure(m.containsKey(KEY2OBJ(T)) == t.containsKey(KEY2OBJ(T)), "Error (" + level + ", " + seed + "):
divergence in keys between t and m (polymorphic method)");

#if #keyclass(Object) && ! (#values(reference)
)
if ((m.GET_VALUE(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
t.get(KEY2OBJ(T)) != null &&
! VALUE2OBJ(m.GET_VALUE(T)).equals(t.get(KEY2OBJ(T))))
#else
if ((m.get(T) != VALUE_NULL) != ((t.get(KEY2OBJ(T)) == null ? VALUE_NULL :
VALUE_OBJ2TYPE(t.get(KEY2OBJ(T)))) != VALUE_NULL) ||
t.get(KEY2OBJ(T)) != null &&
! m.get(KEY2OBJ(T)).equals(t.get(KEY2OBJ(T))))
#endif
{
System.out.println("Error (" + level + ", " + seed + "): divergence between t and m (polymorphic method)");
System.exit(1);
}
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
KEY_TYPE T = genKey();

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
m.get(KEY2OBJ(T));
}

```

```

 catch (NoSuchElementException e) { mThrowsNoElement
= true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 t.get(KEY2OBJ(T));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): get() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): get() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(valEquals(m.get(KEY2OBJ(T)), t.get(KEY2OBJ(T))),
"Error (" + level + ", " + seed + "): divergence between t and m (standard method)");
 }

 /* Now we put and remove random data in m and t, checking that the result is the same. */

 for(int i=0; i<20*n; i++) {
 KEY_TYPE T = genKey();
 VALUE_TYPE
 U = genValue();

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 rm = m.put(KEY2OBJ(T), VALUE2OBJ(U));
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 catch (IllegalArgumentException e) { mThrowsIllegal = true; }

 try {
 rt = t.put(KEY2OBJ(T), VALUE2OBJ(U));
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }
 catch (IllegalArgumentException e) { tThrowsIllegal = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): put() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): put() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + ")");
 if (!mThrowsNoElement && !mThrowsIllegal) ensure(valEquals(rm, rt), "Error (" + level + ", " + seed
+ "): divergence in put() between t and m (" + rt + ", " + rm + ")");

 T = genKey();

```

```

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 rm = m.remove(KEY2OBJ(T));
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
catch (IllegalArgumentException e) { mThrowsIllegal = true; }

try {
 rt = t.remove(KEY2OBJ(T));
}
catch (NoSuchElementException e) { tThrowsNoElement = true; }
catch (IllegalArgumentException e) { tThrowsIllegal = true; }

ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): remove() divergence in
NoSuchElementException for " + T + " (" + mThrowsNoElement + ", " + tThrowsNoElement + "));
ensure(mThrowsIllegal == tThrowsIllegal, "Error (" + level + ", " + seed + "): remove() divergence in
IllegalArgumentException for " + T + " (" + mThrowsIllegal + ", " + tThrowsIllegal + "));
if (!mThrowsNoElement && !mThrowsIllegal) ensure(valEquals(
rm, rt), "Error (" + level + ", " + seed + "): divergence in remove() between t and m (" + rt + ", " + rm + "));
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after removal");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after removal");

/* Now we check that m actually holds the same data. */

for(Iterator i=t.entrySet().iterator(); i.hasNext();) {
 java.util.Map.Entry e = (java.util.Map.Entry)i.next();
 ensure(valEquals(e.getValue(), m.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after removal (iterating on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(Iterator i=m.entrySet().iterator(); i.hasNext();) {
 Entry e = (Entry)i.next();
 ensure(valEquals(e.getValue(), t.get(e.getKey())), "Error (" + level + ", " + seed + "): m and t differ on an entry
("+e+") after removal (iterating on m)");
}

/*
Now we check that m actually holds the same keys. */

for(Iterator i=t.keySet().iterator(); i.hasNext();) {
 Object o = i.next();

```



```

 ensure(m.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ") after removal
(iterating on t)");
 ensure(m.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (" + o + ", in keySet()) after
removal (iterating on t)");
}

/* Now we check that m actually holds the same keys, but iterating on m. */

for(Iterator i=m.keySet().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsKey(o), "Error (" + level + ", " + seed + "): m and t differ on a key after removal (iterating on m)");
 ensure(t.keySet().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a key (in keySet()) after removal
(iterating on m)");
}

/* Now we check that m actually hold the same values. */

for(Iterator i=t.values().iterator(); i.hasNext();) {
 Object
o = i.next();
 ensure(m.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after removal (iterating on
t)");
 ensure(m.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
removal (iterating on t)");
}

/* Now we check that m actually hold the same values, but iterating on m. */

for(Iterator i=m.values().iterator(); i.hasNext();) {
 Object o = i.next();
 ensure(t.containsValue(o), "Error (" + level + ", " + seed + "): m and t differ on a value after removal (iterating on
m)");
 ensure(t.values().contains(o), "Error (" + level + ", " + seed + "): m and t differ on a value (in values()) after
removal (iterating on m)");
}

/* Now we check that both maps agree on first/last keys. */

mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

try {
 m.firstKey();
}
catch (NoSuchElementException e) { mThrowsNoElement = true; }
try
{
 t.firstKey();
}

```

```

 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): firstKey() divergence in
 NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");
 if (! mThrowsNoElement) ensure(t.firstKey().equals(m.firstKey()), "Error (" + level + ", " + seed + "): m and t
 differ on their first key (" + m.firstKey() + ", " + t.firstKey() + ")");

 mThrowsNoElement = mThrowsIllegal = tThrowsNoElement = tThrowsIllegal = false;

 try {
 m.lastKey();
 }
 catch (NoSuchElementException e) { mThrowsNoElement = true; }
 try {
 t.lastKey();
 }
 catch (NoSuchElementException e) { tThrowsNoElement = true; }

 ensure(mThrowsNoElement == tThrowsNoElement, "Error (" + level + ", " + seed + "): lastKey() divergence in
 NoSuchElementException (" + mThrowsNoElement + ", " + tThrowsNoElement + ")");

 if (! mThrowsNoElement) ensure(t.lastKey().equals(
 m.lastKey()), "Error (" + level + ", " + seed + "): m and t differ on their last key (" + m.lastKey() + ", " + t.lastKey()
 + ")");

 /* Now we check cloning. */

 if (level == 0) {
 ensure(m.equals(((RB_TREE_MAP)m).clone()), "Error (" + level + ", " + seed + "): m does not equal m.clone()"
);
 ensure(((RB_TREE_MAP)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m"
);
 m = (RB_TREE_MAP)((RB_TREE_MAP)m).clone();
 }

 int h = m.hashCode();

 /* Now we save and read m. */

 SORTED_MAP m2 = null;

 try {
 java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
 java.io.OutputStream os = new java.io.FileOutputStream(ff);
 java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

```

```

oos.writeObject(m);
oos.close();

java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

m2 = (SORTED_MAP)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception
e) {
 e.printStackTrace();
 System.exit(1);
}

#if !#valueclass(Reference)
ensure(m2.hashCode() == h, "Error (" + level + ", " + seed + "): hashCode() changed after save/read");

/* Now we check that m2 actually holds that data. */

ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
/* Now we take out of m everything, and check that it is empty. */
#else
m2.clear();
m2.putAll(m);
#endif

for(Iterator i=t.keySet().iterator(); i.hasNext();) m2.remove(i.next());

ensure(m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)");

/* Now we play with iterators. */

{
 java.util.ListIterator i, j;
 Map.Entry E, F;
 Object J;
 i = (java.util.ListIterator)m.entrySet().iterator();
 j = new java.util.LinkedList(
t.entrySet()).listIterator();

 for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()");

 if (r.nextFloat() < .8 && i.hasNext()) {

```

```

 ensure((E=(Entry)i.next()).getKey().equals(J = (F=(Map.Entry)j.next()).getKey()), "Error (" + level + ", " + seed +
"): divergence in next()");

 if (r.nextFloat() < 0.3) {
 i.remove();
 j.remove();
 t.remove(J);
 }
 else if (r.nextFloat() < 0.3) {
 Object U = VALUE2OBJ(genValue());
 E.setValue(U);
 t.put(F.getKey(), U);
 }
 }
 else if (r.nextFloat() < .2 && i.hasPrevious()) {
 ensure((E=(Entry)i.previous()).getKey().equals(J = (F=(Map.Entry)j.previous()).getKey()), "Error (" + level + ", "
+ seed + "): divergence in previous()");

 if (r.nextFloat()
< 0.3) {
 i.remove();
 j.remove();
 t.remove(J);
 }
 else if (r.nextFloat() < 0.3) {
 Object U = VALUE2OBJ(genValue());
 E.setValue(U);
 t.put(F.getKey(), U);
 }
 }
 }

 ensure(i.nextIndex() == j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()");
 ensure(i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()");

 }
 }

 {
 boolean badPrevious = false;
 Object previous = null;
 it.unimi.dsi.fastutil.BidirectionalIterator i;
 java.util.ListIterator j;
 Object I, J;
 KEY_TYPE from = genKey();
 j = new java.util.LinkedList(t.keySet()).listIterator();
 while(j.hasNext()) {
 Object k = j.next();
 if (((Comparable)k).compareTo(KEY2OBJ(from)) > 0) {

```

```

 badPrevious = true;
 j.previous();
 break;
}
previous = k;
}

i = (it.unimi.dsi.fastutil.BidirectionalIterator)((SORTED_SET)m.keySet()).iterator(
from);

for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")");
 ensure(i.hasPrevious() == j.hasPrevious() || badPrevious && (i.hasPrevious() == (previous != null)), "Error (" +
level + ", " + seed + "): divergence in hasPrevious() (iterator with starting point " + from + ")" + badPrevious);

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure((I = i.next()).equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point " + from + ")");
 //System.err.println("Done next " + I + " " + J + " " + badPrevious);

 badPrevious = false;

 if (r.nextFloat() < 0.5) {
 //System.err.println("Removing in next");
 i.remove();
 j.remove();
 t.remove(J);
 }
 else if (!badPrevious && r.nextFloat() < .2
&& i.hasPrevious()) {
 ensure((I = i.previous()).equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J + ", iterator with starting point " + from + ")");

 if (r.nextFloat() < 0.5) {
 //System.err.println("Removing in prev");
 i.remove();
 j.remove();
 t.remove(J);
 }
 }
 }

}

/* Now we check that m actually holds that data. */

```

```

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after iteration");

/* Now we select a pair of keys and create a submap. */

if (! m.isEmpty()) {
 java.util.ListIterator i;
 Object start = m.firstKey(), end = m.firstKey();
 for(i = (java.util.ListIterator)m.keySet().iterator(); i.hasNext() && r.nextFloat() < .3; start = end = i.next());
 for(; i.hasNext() && r.nextFloat() < .95; end = i.next());

 //System.err.println("Checking
subMap from " + start + " to " + end + " (level=" + (level+1) + ")...");
 testMaps((SORTED_MAP)m.subMap((KEY_CLASS) start, (KEY_CLASS)end), t.subMap(start, end), n, level +
1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after subMap");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subMap");

 //System.err.println("Checking headMap to " + end + " (level=" + (level+1) + ")...");
 testMaps((SORTED_MAP)m.headMap((KEY_CLASS)end), t.headMap(end), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after headMap");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after headMap");

 //System.err.println("Checking tailMap from " + start + " (level=" + (level+1) + ")...");
 testMaps((SORTED_MAP)m.tailMap((KEY_CLASS)start), t.tailMap(start), n, level + 1);

 ensure(m.equals(t), "Error (" + level
+ ", " + seed + "): ! m.equals(t) after tailMap");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after tailMap");
}

}

private static void test(int n) {
 RB_TREE_MAP m = new RB_TREE_MAP();
 SortedMap t = new java.util.TreeMap();
 topMap = m;
 k = new Object[n];
 v = new Object[n];
 nk = new Object[n];
 kt = new KEY_TYPE[n];
 nkt = new KEY_TYPE[n];
 vt = new VALUE_TYPE[n];
}

```

```

 for(int i = 0; i < n; i++) {
#if #keyclass(Object)
 k[i] = kt[i] = genKey();
 nk[i] = nkt[i] = genKey();
#else
 k[i] = new KEY_CLASS(kt[i] = genKey());
 nk[i] = new KEY_CLASS(nkt[i] = genKey());
#endif
#if #values(reference)
 v[i] = vt[i] = genValue();
#else
 v[i] = new VALUE_CLASS(vt[i] = genValue());
#endif
 }

 /* We add pairs to t. */
 for(int i = 0; i < n; i++) t.put(k[i], v[i]);

 /* We add to m the same data */
 m.putAll(t);

 testMaps(m, t, n, 0);

 System.out.println("Test OK");
 return;
}

public static
void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0]));
 else if ("test".equals(args[0])) test(n);
 } catch(Throwable e) {
 e.printStackTrace(System.err);
 System.err.println("seed: " + seed);
 }
}

#endif

}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/RBTreeMap.drv

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\*/

package PACKAGE;

/\*\* An abstract class providing basic methods for functions implementing a type-specific interface.

\*

\* <P>Optional operations just throw an { @link

\* UnsupportedOperationException}. Generic versions of accessors delegate to

\* the corresponding type-specific counterparts following the interface  
rules

\* (they take care of returning <code>null</code> on a missing key).

\*

\* <P>This class handles directly a default return

\* value (including { @linkplain #defaultReturnValue() methods to access

\* it}). Instances of classes inheriting from this class have just to return

\* <code>defRetVal</code> to denote lack of a key in type-specific methods. The value

\* is serialized.

\*

\* <P>Implementing subclasses have just to provide type-specific <code>get()</code>,

\* type-specific <code>containsKey()</code>, and <code>size()</code> methods.

\*

\*/

public abstract class ABSTRACT\_FUNCTION\_KEY\_VALUE\_GENERIC implements FUNCTION  
KEY\_VALUE\_GENERIC, java.io.Serializable {

private static final long serialVersionUID = -4940583368468432370L;

protected ABSTRACT\_FUNCTION() {}



```

/**
 * The default return value for <code>get()</code>, <code>put()</code> and
 * <code>remove()</code>.
 */

protected VALUE_GENERIC_TYPE defRetVal;

public void defaultReturnValue(final VALUE_GENERIC_TYPE
rv) {
 defRetVal = rv;
}

public VALUE_GENERIC_TYPE defaultReturnValue() {
 return defRetVal;
}

public VALUE_GENERIC_TYPE put(KEY_GENERIC_TYPE key, VALUE_GENERIC_TYPE value) {
 throw new UnsupportedOperationException();
}

public VALUE_GENERIC_TYPE REMOVE_VALUE(KEY_TYPE key) {
 throw new UnsupportedOperationException();
}

public void clear() {
 throw new UnsupportedOperationException();
}

#if #keys(primitive)
public boolean containsKey(final Object ok) {
 return containsKey(KEY_OBJ2TYPE(ok));
}
#endif

#if #keys(primitive) || #values(primitive)

#if #values(primitive)
/** Delegates to the corresponding type-specific method, taking care of returning <code>null</code> on a missing
key.
 *
 * <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
 * it probes
the map twice. Implementors of subclasses should override it with a more efficient method.
 *
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#else

```

```

/** Delegates to the corresponding type-specific method, taking care of returning <code>null</code> on a missing
key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map twice. Implementors of subclasses should override it with a more efficient method.
*/
#endif
public VALUE_GENERIC_CLASS get(final Object ok) {
 final KEY_TYPE k = KEY_OBJ2TYPE(ok);
 return containsKey(k) ? VALUE2OBJ(GET_VALUE(k)) : null;
}

#if #keys(primitive) || #values(primitive)
/** Delegates to the corresponding type-specific method, taking care of returning <code>null</code>
on a missing key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map twice. Implementors of subclasses should override it with a more efficient method.
*
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#else
/** Delegates to the corresponding type-specific method, taking care of returning <code>null</code> on a missing
key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map twice. Implementors of subclasses should override it with a more efficient method.
*/
#endif
public VALUE_GENERIC_CLASS put(final KEY_GENERIC_CLASS ok, final VALUE_GENERIC_CLASS ov)
{
 final KEY_GENERIC_TYPE k = KEY_CLASS2TYPE(ok);
 final boolean containsKey = containsKey(k);
 final VALUE_GENERIC_TYPE v = put(k, VALUE_CLASS2TYPE(ov));
 return containsKey ? VALUE2OBJ(
v) : null;
}

#if #values(primitive)
/** Delegates to the corresponding type-specific method, taking care of returning <code>null</code> on a missing
key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map twice. Implementors of subclasses should override it with a more efficient method.
*
* @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
#else

```

```

/** Delegates to the corresponding type-specific method, taking care of returning <code>null</code> on a missing
key.
*
* <P>This method must check whether the provided key is in the map using <code>containsKey()</code>. Thus,
* it probes the map twice. Implementors of subclasses should override it with a more efficient method.
*/
#endif
public
VALUE_GENERIC_CLASS remove(final Object ok) {
 final KEY_TYPE k = KEY_OBJ2TYPE(ok);
 final boolean containsKey = containsKey(k);
 final VALUE_GENERIC_TYPE v = REMOVE_VALUE(k);
 return containsKey ? VALUE2OBJ(v) : null;
}
#endif
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractFunction.drv

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```

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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

```

```
package PACKAGE;
```

```

import VALUE_PACKAGE.VALUE_COLLECTION;
import VALUE_PACKAGE.VALUE_ABSTRACT_COLLECTION;
import VALUE_PACKAGE.VALUE_ABSTRACT_ITERATOR;
import VALUE_PACKAGE.VALUE_ITERATOR;
import it.unimi.dsi.fastutil.objects.ObjectBidirectionalIterator;
import it.unimi.dsi.fastutil.objects.ObjectSortedSet;
import

```

```

java.util.Map;

#if #keys(reference)
import java.util.Comparator;
#endif

/** An abstract class providing basic methods for sorted maps implementing a type-specific interface. */

public abstract class ABSTRACT_SORTED_MAP KEY_VALUE_GENERIC extends ABSTRACT_MAP
KEY_VALUE_GENERIC implements SORTED_MAP KEY_VALUE_GENERIC {

private static final long serialVersionUID = -1773560792952436569L;

protected ABSTRACT_SORTED_MAP() {}

#if #keys(primitive)
/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC headMap(final KEY_GENERIC_CLASS to) {
return headMap(KEY_CLASS2TYPE(to));
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC tailMap(final KEY_GENERIC_CLASS from) {
return tailMap(KEY_CLASS2TYPE(from));
}

/**
Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public SORTED_MAP KEY_VALUE_GENERIC subMap(final KEY_GENERIC_CLASS from, final
KEY_GENERIC_CLASS to) {
return subMap(KEY_CLASS2TYPE(from), KEY_CLASS2TYPE(to));
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */
@Deprecated
public KEY_GENERIC_CLASS firstKey() {
return KEY2OBJ(FIRST_KEY());
}

/** Delegates to the corresponding type-specific method.
 * @deprecated Please use the corresponding type-specific method instead. */

```

```

@Deprecated
public KEY_GENERIC_CLASS lastKey() {
 return KEY2OBJ(LAST_KEY());
}
#endif

/** Returns a type-specific-sorted-set view of the keys of this map.
 *
 * <P>The view is backed by the sorted set returned by { @link #entrySet()}. Note that
 * no attempt is made at caching the result of this method,
 * as this would
 * require adding some attributes that lightweight implementations would
 * not need. Subclasses may easily override this policy by calling
 * this method and caching the result, but implementors are encouraged to
 * write more efficient ad-hoc implementations.
 *
 * @return a sorted set view of the keys of this map; it may be safely cast to a type-specific interface.
 */

public SORTED_SET KEY_GENERIC keySet() {
 return new KeySet();
}

/** A wrapper exhibiting the keys of a map. */

protected class KeySet extends ABSTRACT_SORTED_SET KEY_GENERIC {
 public boolean contains(final KEY_TYPE k) { return containsKey(k); }
 public int size() { return ABSTRACT_SORTED_MAP.this.size(); }
 public void clear() { ABSTRACT_SORTED_MAP.this.clear(); }

 public KEY_COMPARATOR KEY_SUPER_GENERIC comparator() { return
 ABSTRACT_SORTED_MAP.this.comparator(); }

 public KEY_GENERIC_TYPE FIRST() { return FIRST_KEY(); }
 public KEY_GENERIC_TYPE LAST() { return
 LAST_KEY(); }

 public SORTED_SET KEY_GENERIC headSet(final KEY_GENERIC_TYPE to) { return headMap(to
).keySet(); }
 public SORTED_SET KEY_GENERIC tailSet(final KEY_GENERIC_TYPE from) { return tailMap(from
).keySet(); }
 public SORTED_SET KEY_GENERIC subSet(final KEY_GENERIC_TYPE from, final KEY_GENERIC_TYPE
 to) { return subMap(from, to).keySet(); }

 public KEY_BIDI_ITERATOR KEY_GENERIC iterator(final KEY_GENERIC_TYPE from) { return new
 KeySetIterator KEY_VALUE_GENERIC(entrySet().iterator(new BasicEntry KEY_VALUE_GENERIC(from,

```

```

VALUE_NULL))); }
 public KEY_BIDI_ITERATOR KEY_GENERIC iterator() { return new KeySetIterator KEY_VALUE_GENERIC(
entrySet().iterator()); }

}
/** A wrapper exhibiting a map iterator as an iterator on keys.
 *
 * <P>To provide an iterator on keys, just create an instance of this
 * class using the corresponding iterator on entries.
 */

protected static class KeySetIterator KEY_VALUE_GENERIC extends KEY_ABSTRACT_BIDI_ITERATOR
KEY_GENERIC
{
 protected final ObjectBidirectionalIterator<Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>>
i;

 public KeySetIterator(ObjectBidirectionalIterator<Map.Entry <KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>> i) {
 this.i = i;
 }

 public KEY_GENERIC_TYPE NEXT_KEY() { return KEY_CLASS2TYPE(i.next().getKey()); };
 public KEY_GENERIC_TYPE PREV_KEY() { return KEY_CLASS2TYPE(i.previous().getKey()); };

 public boolean hasNext() { return i.hasNext(); }
 public boolean hasPrevious() { return i.hasPrevious(); }
}

/** Returns a type-specific collection view of the values contained in this map.
 *
 * <P>The view is backed by the sorted set returned by { @link #entrySet()}. Note that
 * no attempt is made at caching the result of this method, as this would
 * require adding some attributes that lightweight implementations would
 * not need. Subclasses may easily override this policy by calling
 * this method and caching the result, but implementors are encouraged
to
 * write more efficient ad-hoc implementations.
 *
 * @return a type-specific collection view of the values contained in this map.
 */

public VALUE_COLLECTION VALUE_GENERIC values() {
 return new ValuesCollection();
}

```

```

/** A wrapper exhibiting the values of a map. */
protected class ValuesCollection extends VALUE_ABSTRACT_COLLECTION VALUE_GENERIC {
 public VALUE_ITERATOR VALUE_GENERIC iterator() { return new ValuesIterator KEY_VALUE_GENERIC(
entrySet().iterator()); }
 public boolean contains(final VALUE_TYPE k) { return containsValue(k); }
 public int size() { return ABSTRACT_SORTED_MAP.this.size(); }
 public void clear() { ABSTRACT_SORTED_MAP.this.clear(); }

}

```

```

/** A wrapper exhibiting a map iterator as an iterator on values.
 *
 * <P>To provide an iterator on values, just create an instance of this
 * class using the corresponding iterator on entries.
 */

```

```

protected static class ValuesIterator KEY_VALUE_GENERIC extends VALUE_ABSTRACT_ITERATOR
VALUE_GENERIC
{
 protected final ObjectBidirectionalIterator<Map.Entry <KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>>
i;

```

```

 public ValuesIterator(ObjectBidirectionalIterator<Map.Entry <KEY_GENERIC_CLASS,
VALUE_GENERIC_CLASS>> i) {
 this.i = i;
 }

```

```

 public VALUE_GENERIC_TYPE NEXT_VALUE() { return VALUE_CLASS2TYPE(i.next().getValue()); };
 public boolean hasNext() { return i.hasNext(); }
}

```

```

@SuppressWarnings({ "unchecked", "rawtypes" })
public ObjectSortedSet<Map.Entry<KEY_GENERIC_CLASS, VALUE_GENERIC_CLASS>> entrySet() {
 return (ObjectSortedSet)ENTRYSET();
}
}

```

Found in path(s):

```

* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/AbstractSortedMap.drv
No license file was found, but licenses were detected in source scan.

```

```

/*
 * Copyright (C) 2004-2015 Sebastiano Vigna
 *
 * Licensed under the Apache License, Version 2.0 (the "License");
 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at

```

```

*
* http://www.apache.org/licenses/LICENSE-2.0
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* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/

/** Loads elements from a given fast buffered reader, storing them in a given array fragment.
*
* @param reader a buffered reader.
* @param array an array which will be filled with data from <code>reader</code>.
* @param offset the index of the first element of <code>array</code> to be filled.
* @param length
the number of elements of <code>array</code> to be filled.
* @return the number of elements actually read from <code>reader</code> (it might be less than
<code>length</code> if <code>reader</code> ends).
*/
public static int LOAD_KEYS(final BufferedReader reader, final KEY_TYPE[] array, final int offset, final int
length) throws IOException {
 PACKAGE.ARRAYS.ensureOffsetLength(array, offset, length);
 int i = 0;
 String s;
 try {
 for(i = 0; i < length; i++)
 if ((s = reader.readLine()) != null) array[i + offset] = KEY_CLASS.PARSE_KEY(s.trim());
 else break;
 }
 catch(EOFException itsOk) {}
 return i;
}

/** Loads elements from a given buffered reader, storing them in a given array.
*
* @param reader a buffered reader.
* @param array an array which will be filled with data from <code>reader</code>.
* @return the number of elements actually read from <code>reader</code> (it might be less than the array length if
<code>reader</code> ends).
*/
public static
int LOAD_KEYS(final BufferedReader reader, final KEY_TYPE[] array) throws IOException {
 return LOAD_KEYS(reader, array, 0, array.length);
}

```



```

/** Loads elements from a file given by a {@link File} object, storing them in a given array fragment.
 *
 * @param file a file.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static int LOAD_KEYS(final File file, final KEY_TYPE[] array, final int offset, final int length) throws
IOException {
 final BufferedReader reader = new BufferedReader(new FileReader(file));
 final int result = LOAD_KEYS(reader, array, offset, length);
 reader.close();

 return result;
}

/** Loads elements from a file given
by a filename, storing them in a given array fragment.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
the file is too short).
 */
public static int LOAD_KEYS(final CharSequence filename, final KEY_TYPE[] array, final int offset, final int
length) throws IOException {
 return LOAD_KEYS(new File(filename.toString()), array, offset, length);
}

/** Loads elements from a file given by a {@link File} object, storing them in a given array.
 *
 * @param file a file.
 * @param array an array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length
if the file is too short).
 */
public static int LOAD_KEYS(final File file, final KEY_TYPE[] array) throws IOException {
 return LOAD_KEYS(file, array, 0, array.length);
}

/** Loads elements from a file given by a filename, storing them in a given array.
 *
 * @param filename a filename.
 * @param array an array which will be filled with data from the specified file.

```

```

* @return the number of elements actually read from the given file (it might be less than the array length if the file
is too short).
*/
public static int LOAD_KEYS(final CharSequence filename, final KEY_TYPE[] array) throws IOException {
 return LOAD_KEYS(filename, array, 0, array.length);
}

/** Stores an array fragment to a given print stream.
*
* @param array an array whose elements will be written to <code>stream</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param stream a print
stream.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final int offset, final int length, final PrintStream
stream) {
 PACKAGE.ARRAYS.ensureOffsetLength(array, offset, length);
 for(int i = 0; i < length; i++) stream.println(array[offset + i]);
}

/** Stores an array to a given print stream.
*
* @param array an array whose elements will be written to <code>stream</code>.
* @param stream a print stream.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final PrintStream stream) {
 STORE_KEYS(array, 0, array.length, stream);
}

/** Stores an array fragment to a file given by a { @link File } object.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param file a file.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final int offset, final int length,
final File file) throws IOException {
 final PrintStream stream = new PrintStream(new FastBufferedOutputStream(new FileOutputStream(file)));
 STORE_KEYS(array, offset, length, stream);
 stream.close();
}

/** Stores an array fragment to a file given by a pathname.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param offset the index of the first element of <code>array</code> to be written.

```

```

* @param length the number of elements of <code>array</code> to be written.
* @param filename a filename.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final int offset, final int length, final CharSequence
filename) throws IOException {
 STORE_KEYS(array, offset, length, new File(filename.toString()));
}

/** Stores an array to a file given by a { @link File } object.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param file a file.
*/
public static void STORE_KEYS(final KEY_TYPE array[],
final File file) throws IOException {
 STORE_KEYS(array, 0, array.length, file);
}

/** Stores an array to a file given by a pathname.
*
* @param array an array whose elements will be written to <code>filename</code>.
* @param filename a filename.
*/
public static void STORE_KEYS(final KEY_TYPE array[], final CharSequence filename) throws IOException {
 STORE_KEYS(array, 0, array.length, filename);
}

/** Stores the element returned by an iterator to a given print stream.
*
* @param i an iterator whose output will be written to <code>stream</code>.
* @param stream a print stream.
*/
public static void STORE_KEYS(final KEY_ITERATOR i, final PrintStream stream) {
 while(i.hasNext()) stream.println(i.NEXT_KEY());
}

/** Stores the element returned by an iterator to a file given by a { @link File } object.
*
* @param i an iterator whose output will be written to <code>filename</code>.
* @param file a file.
*/
public static void STORE_KEYS(final KEY_ITERATOR
i, final File file) throws IOException {
 final PrintStream stream = new PrintStream(new FastBufferedOutputStream(new FileOutputStream(file)));
 STORE_KEYS(i, stream);
 stream.close();
}

```

```

/** Stores the element returned by an iterator to a file given by a pathname.
 *
 * @param i an iterator whose output will be written to <code>filename</code>.
 * @param filename a filename.
 */
public static void STORE_KEYS(final KEY_ITERATOR i, final CharSequence filename) throws IOException {
 STORE_KEYS(i, new File(filename.toString()));
}

/** Loads elements from a given fast buffered reader, storing them in a given big-array fragment.
 *
 * @param reader a buffered reader.
 * @param array a big array which will be filled with data from <code>reader</code>.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from <code>reader</code>
 (it might be less than <code>length</code> if <code>reader</code> ends).
 */
public static long LOAD_KEYS(final BufferedReader reader, final KEY_TYPE[][] array, final long offset, final
long length) throws IOException {
 PACKAGE.BIG_ARRAYS.ensureOffsetLength(array, offset, length);
 long c = 0;
 String s;
 try {
 for(int i = segment(offset); i < segment(offset + length + SEGMENT_MASK); i++) {
 final KEY_TYPE[] t = array[i];
 final int l = (int)Math.min(t.length, offset + length - start(i));
 for(int d = (int)Math.max(0, offset - start(i)); d < l; d++) {
 if ((s = reader.readLine()) != null) t[d] = KEY_CLASS.PARSE_KEY(s.trim());
 else return c;
 c++;
 }
 }
 }
 catch(EOFException itsOk) {}
 return c;
}

/** Loads elements from a given buffered reader, storing them in a given array.
 *
 * @param reader a buffered reader.
 * @param array a big array which will be filled with data from <code>reader</code>.
 * @return the number of elements
 actually read from <code>reader</code> (it might be less than the array length if <code>reader</code> ends).
 */
public static long LOAD_KEYS(final BufferedReader reader, final KEY_TYPE[][] array) throws IOException {
 return LOAD_KEYS(reader, array, 0, PACKAGE.BIG_ARRAYS.length(array));
}

```

```

}

/** Loads elements from a file given by a {@link File} object, storing them in a given big-array fragment.
 *
 * @param file a file.
 * @param array a big array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
 the file is too short).
 */
public static long LOAD_KEYS(final File file, final KEY_TYPE[][] array, final long offset, final long length)
throws IOException {
 final BufferedReader reader = new BufferedReader(
 new FileReader(file));
 final long result = LOAD_KEYS(reader, array, offset, length);
 reader.close();

 return result;
}

/** Loads elements from a file given by a filename, storing them in a given big-array fragment.
 *
 * @param filename a filename.
 * @param array a big array which will be filled with data from the specified file.
 * @param offset the index of the first element of <code>array</code> to be filled.
 * @param length the number of elements of <code>array</code> to be filled.
 * @return the number of elements actually read from the given file (it might be less than <code>length</code> if
 the file is too short).
 */
public static long LOAD_KEYS(final CharSequence filename, final KEY_TYPE[][] array, final long offset, final
long length) throws IOException {
 return LOAD_KEYS(new File(filename.toString()), array, offset, length);
}

/** Loads elements from a file given by a {@link File} object, storing them in a given array.
 *
 * @param file a file.
 * @param array
 array a big array which will be filled with data from the specified file.
 * @return the number of elements actually read from the given file (it might be less than the array length if the file
 is too short).
 */
public static long LOAD_KEYS(final File file, final KEY_TYPE[][] array) throws IOException {
 return LOAD_KEYS(file, array, 0, PACKAGE.BIG_ARRAYS.length(array));
}

/** Loads elements from a file given by a filename, storing them in a given array.

```

```

*
* @param filename a filename.
* @param array a big array which will be filled with data from the specified file.
* @return the number of elements actually read from the given file (it might be less than the array length if the file
is too short).
*/
public static long LOAD_KEYS(final CharSequence filename, final KEY_TYPE[][] array) throws IOException {
 return LOAD_KEYS(filename, array, 0, PACKAGE.BIG_ARRAYS.length(array));
}

/** Stores a big-array fragment to a given print stream.
*
* @param array a big array
whose elements will be written to <code>stream</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param stream a print stream.
*/
public static void STORE_KEYS(final KEY_TYPE array[][] , final long offset, final long length, final PrintStream
stream) {
 PACKAGE.BIG_ARRAYS.ensureOffsetLength(array, offset, length);

 for(int i = segment(offset); i < segment(offset + length + SEGMENT_MASK); i++) {
 final KEY_TYPE[] t = array[i];
 final int l = (int)Math.min(t.length, offset + length - start(i));
 for(int d = (int)Math.max(0, offset - start(i)); d < l; d++) stream.println(t[d]);
 }
}

/** Stores a big array to a given print stream.
*
* @param array a big array whose elements will be written to <code>stream</code>.
* @param stream a print stream.
*/
public static void STORE_KEYS(final KEY_TYPE array[][] , final PrintStream stream)
{
 STORE_KEYS(array, 0, PACKAGE.BIG_ARRAYS.length(array), stream);
}

/** Stores a big-array fragment to a file given by a { @link File } object.
*
* @param array a big array whose elements will be written to <code>filename</code>.
* @param offset the index of the first element of <code>array</code> to be written.
* @param length the number of elements of <code>array</code> to be written.
* @param file a file.
*/
public static void STORE_KEYS(final KEY_TYPE array[][] , final long offset, final long length, final File file)
throws IOException {

```

```

final PrintStream stream = new PrintStream(new FastBufferedOutputStream(new FileOutputStream(file)));
STORE_KEYS(array, offset, length, stream);
stream.close();
}

/** Stores a big-array fragment to a file given by a pathname.
 *
 * @param array a big array whose elements will be written to <code>filename</code>.
 * @param offset the index of the first element of <code>array</code> to be written.
 * @param length the number of
 * elements of <code>array</code> to be written.
 * @param filename a filename.
 */
public static void STORE_KEYS(final KEY_TYPE array[][], final long offset, final long length, final
CharSequence filename) throws IOException {
 STORE_KEYS(array, offset, length, new File(filename.toString()));
}

/** Stores a big array to a file given by a { @link File } object.
 *
 * @param array a big array whose elements will be written to <code>filename</code>.
 * @param file a file.
 */
public static void STORE_KEYS(final KEY_TYPE array[][], final File file) throws IOException {
 STORE_KEYS(array, 0, PACKAGE.BIG_ARRAYS.length(array), file);
}

/** Stores a big array to a file given by a pathname.
 *
 * @param array a big array whose elements will be written to <code>filename</code>.
 * @param filename a filename.
 */
public static void STORE_KEYS(final KEY_TYPE array[][], final CharSequence filename) throws IOException {
 STORE_KEYS(array, 0, PACKAGE.BIG_ARRAYS.length(array), filename
);
}

/** A wrapper that exhibits the content of a reader as a type-specific iterator. */

final private static class KEY_READER_WRAPPER extends KEY_ABSTRACT_ITERATOR {
 final private BufferedReader reader;
 private boolean toAdvance = true;
 private String s;
 private KEY_TYPE next;

 public KEY_READER_WRAPPER(final BufferedReader reader) {
 this.reader = reader;
 }
}

```

```

}

public boolean hasNext() {
 if (! toAdvance) return s != null;

 toAdvance = false;

 try {
 s = reader.readLine();
 }
 catch(EOFException itsOk) {}
 catch(IOException rethrow) { throw new RuntimeException(rethrow); }

 if (s == null) return false;

 next = KEY_CLASS.PARSE_KEY(s.trim());
 return true;
}

public KEY_TYPE NEXT_KEY() {
 if (! hasNext()) throw new NoSuchElementException();
 toAdvance = true;
 return next;
}
}

/** Wraps the given buffered reader into an iterator.
 *
 * @param reader a buffered reader.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR(final BufferedReader reader
) {
 return new KEY_READER_WRAPPER(reader);
}

/** Wraps a file given by a {@link File} object into an iterator.
 *
 * @param file a file.
 */
public static KEY_ITERATOR AS_KEY_ITERATOR(final File file) throws IOException {
 return new KEY_READER_WRAPPER(new BufferedReader(new FileReader(file)));
}

/** Wraps a file given by a pathname into an iterator.
 *
 * @param filename a filename.

```



```
*/
public static KEY_ITERATOR AS_KEY_ITERATOR(final CharSequence filename) throws IOException {
 return AS_KEY_ITERATOR(new File(filename.toString()));
}
```

```
/** Wraps a file given by a {@link File} object into an iterable object.
```

```
*
```

```
* @param file a file.
```

```
*/
```

```
public static KEY_ITERABLE AS_KEY_ITERABLE(final File file) {
 return new KEY_ITERABLE() {
 public KEY_ITERATOR iterator() {
 try {
 return AS_KEY_ITERATOR(file);
 }
 catch(IOException e) {
 throw new RuntimeException(e);
 }
 }
 };
}
```

```
/** Wraps a file given by a pathname into an iterable object.
```

```
*
```

```
* @param
```

```
filename a filename.
```

```
*/
```

```
public static KEY_ITERABLE AS_KEY_ITERABLE(final CharSequence filename) {
 return new KEY_ITERABLE() {
 public KEY_ITERATOR iterator() {
 try {
 return AS_KEY_ITERATOR(filename);
 }
 catch(IOException e) {
 throw new RuntimeException(e);
 }
 }
 };
}
```

Found in path(s):

```
* /opt/cola/permits/1553691039_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/TextIOFragment.drv
```

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

7.0.10

- The infinite-loop bug was affecting trim(int) besides trim(). Thanks to Igor Kabiljo for reporting this bug.

- With the help of Erich Schubert, all methods with a type-specific, more efficient counterpart have been deprecated.

#### 7.0.9

- A subtle infinite-loop bug in hash-based structures (happening with load factor 1 and tiny structures) has been fixed. Thanks to Tuomas Välimäki and Jarkko Mönkkönen for reporting this bug.
- Now tree-based map have an addTo() method analogous to that of hash-based maps. Thanks to Almog Gavra for implementing the method.

#### 7.0.8

- Non-indirect priority queues are now serializable.
- Fixed implementation of structures based on a custom hash: keys strategy-equal to zero would not be managed correctly. Thanks to Shawn Cao for reporting this bug.
- Natural/opposite/abstract comparators are now serializable.

#### 7.0.7

- Now we check whether ranges of parallel sorting algorithms are too small *before* creating the thread pool.
- Merged Erich Schubert's fix for `Object{AVL,RB}TreeSet.get()`.

#### 7.0.6

- Faster priority queues: better variable caching, deleted a spurious check, tests for parameters turned into assertions.
- New collection-based constructors for heap-based priority queues.
- Reviewed `ObjectArrays.newArray()` so that there is a fast track for reallocation of arrays of type `Object[]`.

#### 7.0.4

- Fixed old-standing bug: iterators in linked maps would return bogus data on `entrySet().next()/entrySet().previous()` when no element is available instead of throwing an exception.

#### 7.0.3

- Fixed wrong generation of custom-hash classes with primitive keys. Thanks to Michael Henke for reporting this bug.

#### 7.0.2

- Now we shutdown() correctly ForkJoinPool's.
- Constants limiting parallelism and recursion have been tuned.
- New implementations of indirect [parallel] quicksort (in ascending order only).
- New stabilization method for post-processing of non-stable indirect sorts.

#### 7.0.1

- Now generated sources are formatted using the Eclipse command-line facility.

#### 7.0.0

- Now we need Java 7.
- New parallel versions of radix sort and quicksort. The sequential implementations have been further improved.
- Restored the previous constants in mixing functions.

#### 6.6.4

- Hopefully better mixing functions created by a genetic algorithm.
- Fixed a bug in floating-point hash-based containers: -0.0 and +0.0 were both converted to +0.0. Thanks to Dawid Weiss for reporting this bug.

#### 6.6.3

- Fixed subtle wrap-around bug in removal from iterator. Thanks to Eugene Yakavets for reporting this bug.

#### 6.6.2

- We now reduce backing arrays of hash-based classes when they are filled below one fourth of the load factor. The reduction is not performed when

deleting from an iterator, as it would make iteration impossible.

- Significant simplification of `Iterator.remove()`'s implementations for hash-based data structures.

#### 6.6.1

- Fixed missed implementation: `setValue()` was not implemented for fast iterators in hash-based maps.

#### 6.6.0

- Major (transparent) rewrite of all hash-based classes inspired by the Goldman-Sachs collections. We no longer allocate a byte array to store the status of each slot: a null (or zero) key denotes an empty slot. The null key is handled separately. The reduction in memory accesses makes the cost of the additional logic negligible, and brings in significant performance improvements. The code is actually simplified, as all loops become a search for a nonzero element.
- Partial (one-step) unrolling of all lookup loops, following the strategy used in Koloboke.
- Fixed an old bug: `entrySet().remove(Entry)` would remove entries checking the value of the key, only.
- Fixed a bug in the iterator over hash big sets.
- OSGI metadata, thanks to Benson Margulies.

#### 6.5.17

- Now `TextIO` methods trim strings before parsing numbers. This avoids obnoxious exceptions when numbers are followed by whitespace.

#### 6.5.16

- Improved speed of `FastMultiByteArrayInputStream`, and removed support for `mark()/reset()`.
- Deprecated array `fill()` methods in favour of `java.util`'s.

#### 6.5.15

- De-deprecated quicksort methods for primitive-type arrays. It turned out that Java's `Arrays.sort()` switches to mergesort on large, semi-sorted

arrays. Moreover, in Java 7 the support array is allocated of the same size of the argument array, not of the sorted fragment. This performance bug was entirely killing the performance of `Transform.transposeOffline()` and other methods. Until that bug is fixed, we will have to rely on our quicksort method (which is a pity, because Java's sort is, for the rest, so beautifully engineered).

#### 6.5.14

- Equality in type-specific hash-based data structures with float or double keys is now checked by converting to int/long bits using the conversion method of the appropriate class. Previously, using NaNs as keys would have led to misbehaviour. Thanks to Davide Savazzi for reporting this bug.

#### 6.5.13

- Fixed a very unlikely corner case that might have led to reduction in size of an array instead of a growth. Thanks to Ernst Reissner for reporting this bug.

- `InspectableFileCachedInputStream` no longer performs a call to `RandomAccessFile.position()` when the end of file has been reached and the file is entirely held in memory.

- All front-coded lists now implement `java.util.RandomAccess`.

#### 6.5.12

- Removed some useless wrapper creation in a few methods of tree-based map classes.

- Fixed pathological `maxFill` computation for very small-sized big open hash sets.

#### 6.5.11

- A very old and subtle performance bug in hash-based data structures has been fixed. Backing arrays were allocated using the number of expected elements divided by the load factor. However, since the test for rehashing was fired by equality with the table size multiplied by the load factor, if the expected number of elements multiplied by the load factor was an integer a useless rehash would happen for the very last added element. The only effect was an useless increase in object creation.

#### 6.5.10

- Now iterators in object set constructors are of type `Iterator`, and not anymore `ObjectIterator`. The kind of allowed iterators has been rationalised and made uniform through all classes implementing `Set`.

#### 6.5.9

- New methods to get a type-specific `Iterable` from binary or text files.

#### 6.5.8

- Fixed stupid bug in creation of array-based FIFO queues.

#### 6.5.7

- Fixed a very subtle bug in hash-based data structures: `addAll()` to a newly created structure could require a very long time due to correlation between the positions in structures with different table sizes.

#### 6.5.6

- `equals()` method between arrays have been deprecated in favour of the `java.util.Arrays` version, which is intrinsified in recent JVMs.
- `InspectableFileCachedInputStream.reopen()` makes it possible to read again from the start an instance on which `close()` was invoked.

#### 6.5.5

- The abstract implementation of `equals()` between (big) lists now uses type-specific access methods (as the `compareTo()` method was already doing) to avoid massive boxing/unboxing. Thanks to Adrien Grand for suggesting this improvement.
- FIFO array-based queues are now serializable.

#### 6.5.4

- Further fixes related to NaNs in sorting.
- Fixed very old bug in `FastByteArrayOutputStream.write(int)`. Thanks to Massimo Santini for reporting this bug.
- We now use `Arrays.MAX_ARRAY_SIZE`, which is equal to `Integer.MAX_VALUE`

minus 8, to bound all array allocations. Previously, it might happen that `grow()` and other array-related functions could try to allocate an array of size `Integer.MAX_VALUE`, which is technically correct from the JLS, but will not work on most JVMs. The maximum length we use now is the same value as that used by `java.util.ArrayList`. Thanks to William Harvey for suggesting this change.

### 6.5.3

- Corrected erroneous introduction of `compare()` methods on integral classes (they appeared in Java 7).

### 6.5.2

- A few changes were necessary to make `fastutil` behave as Java on NaNs when sorting. `Double.compareTo()` and `Float.compareTo()` treat `Double.NaN` as greater than `Double.POSITIVE_INFINITY`, and `fastutil` was not doing it. As part of the change, now all comparisons between primitive types are performed using the `compare()` method of the wrapper class (microbenchmarks confirmed that there is no speed penalty for that, probably due to inlining or even intrinsification). Thanks to Adam Klein for reporting this bug.

- All `quickSort()` implementations that do not involve a comparator are now deprecated, as there are equivalent/better versions in `java.util.Arrays`.

### 6.5.0 -> 6.5.1

- Now `FastBuffered{Input/Output}Stream` has a constructor with an explicitly given buffer.

- Abandoned golden-ratio based expansion of arrays and lists in favour of a (more standard) doubling approach.

- Array-based FIFO queues now reduce their capacity automatically by halving when the size becomes one fourth of the length.

- The `add()` method for open hash maps has been deprecated and replaced by `addTo()`, as the name choice proved to be a recipe for disaster.

- New `InspectableFileCachedInputStream` for caching easily large byte streams partially on file and partially in memory.

- The `front()` method for semi-indirect heaps took no comparator, but was used in queues in which you could support a comparator. There is now a further version accepting a comparator.

- Serial Version UIDs are now private.

6.4.6 -> 6.5.0

- Fixed type of array hash strategies.
- Fixed use of equals() instead of compareTo() in SemiIndirectHeaps.front(). Thanks to Matthew Hatem for reporting this bug.
- Now we generate custom hash maps for primitive types, too (as we were already doing for sets).

6.4.5 -> 6.4.6

- In array-based priority queues changed() would not invalidate the cached index of the smallest element.

6.4.4 -> 6.4.5

- In some very rare circumstances, enumeration of hash sets or maps combined with massive element removal (using the iterator remove() method) could have led to inconsistent enumeration (duplicates and missing elements). Thanks to Hamish Morgan for reporting this bug.

6.4.3 -> 6.4.4

- Array-based maps were not implementing correctly entrySet().contains(), and as a consequence equals() between such maps was broken. Thanks to Benson Margulies for reporting this bug.

6.4.2 -> 6.4.3

- Now array-based priority queue cache their first element. Moreover, they implement the correct type-specific interface.

6.4.1 -> 6.4.2

- Now we have indirect lexicographical radix sort on pairs of arrays, mainly used to compute quickly Kendall's tau.
- New reverse method for arrays (useful for radix descending sorts).
- Radix sort (one or two arrays) for big arrays.
- Now radix sort uses correctly (minimally) sized



support arrays when  
sorting subarrays.

6.4 -> 6.4.1

- Now we have a separate directory, settable in the makefile, to generate sources. This makes Maven integration easier.
- The store methods in TextIO for big arrays were broken.
- Now big-array lists implement the Stack interface.
- Fixed subtle bug in rehash() methods of big hash sets.

6.3 -> 6.4

- WARNING: Indirect queues must obviously have a way to determine whether an index is in the queue. It was an oversight in the interface design that a contains() method was not present. We took the risk of adding it now. At the same time, we modified remove() so that now returns a boolean specifying whether the index to be removed was actually in the queue, as this is more in line with the Java Collections Framework.

- Removed unused double-priority queue related classes.

- Now array-based sets and maps have a constructor based on java.util.Collection and java.util.Map (as for the other kind of sets and maps).

-

New doubly linked implementation for linked hash maps and sets. It uses twice the space for pointers, but mixes well with linear probing, so we have again constant-time true deletions. Moreover, iterators can be started from any key in constant time (albeit the first access to the index of the list iterator will require a linear scan, unless the iterator started from the first or the last key). Additional methods such as getAndMoveToFirst() make the creation of LRU caches very easy. Thanks to Brien Colwell for donating the code.

- Now object-based array FIFO queues provide deque methods. Moreover, they clean up the backing array after returning an object or when performing a clear().

- New get() method in set implementations makes it possible to recover the actual object in the collection that is equal to the query key.

- A number of bugs were found and fixed by Christian Falz (thanks!). In all binary search code the "to" parameter was \*inclusive\*, but the

documentation said *\*exclusive\**, with obvious problems. Hash map iterators could return under some very subtle and almost irreproducible circumstances a previously deleted slot. Deleted hash map entries would return spurious null values.

6.2.2 -> 6.3

- We now have radix sort. It's much faster than quicksort, but it can only sort keys in their natural order. There are multiple-array and indirect (and possibly stable) versions available.
- There are now custom hash sets also for type-specific keys. This makes it possible to use hash sets to index data indirectly (e.g., using integer or long just as indices).
- Shuffling static methods for all kinds of (big) list and arrays.

6.2.1 -> 6.2.2

- A new add() method makes the usage of maps as counters easier and faster.

6.2.0 -> 6.2.1

- A very stupid bug was causing twice the rehashing that was necessary. Now insertions in hash-based classes are significantly faster.

6.1.0 -> 6.2.0

- A better structure of the scan loop for hash tables borrowed from HPPC (<http://labs.carrotsearch.com/hppc.html>) gives some speed improvement to hash-based classes.

6.0.0 -> 6.1.0

- Hash-based classes have been rewritten using linear probing and a good hash (MurmurHash3). The old classes can be still generated using the target oldsources.
- Bizarre queues (double- and sesqui-indirect) have been removed from the standard jar, but they can be still generated using the target oldsources.

5.1.5 -> 6.0.0

- WARNING: the jar file is now fastutil.jar (not fastutil5.jar), again.

- WARNING: now fastutil requires Java 6+.
- fastutil is now released under the Apache License 2.0.
- New framework for big arrays, represented as arrays-of-arrays. BigArrays and the type-specific counterparts provide static methods of all kinds.
- New Size64 interface for classes implementing big collections.
- New framework for big lists--lists with longs as indices. The only present implementation uses big arrays, but, for instance, Sux4J's succinct lists will be retrofitted to LongBigList (presently they implement LongBigList from dsuutils, which will be deprecated).
- List.iterator() now returns a ListIterator. There is no real reason not to do this, and the API change is handled from an implementation viewpoint in AbstractList, so nobody should really notice.
- New Collections.asCollection(Iterable) method to expose iterables as collections (missing methods are computed using the iterator). This was also the occasion to streamline type-specific abstract collections, which now inherit from java.util.AbstractCollection, so we support contains, clear, etc. methods as long as there is an iterator.
- Fixed bugged array-based constructors of ArrayMap and ArraySet.
- Fixed bugged put/remove methods in abstract functions. Thanks to Katja Filippova for reporting this bug.
- New front-coded lists use big arrays, so they can store much more (in fact, unlimited) data. Unfortunately, they are no longer serialisation-compatible with previous versions.
- New MeasurableStream interface that is implemented by MeasurableInputStream and by a new, analogous MeasurableOutputStream.
- Better FastBufferedOutputStream and FastByteArrayOutputStream that are measurable and positionable.
- Now all clone() methods override covariantly the default return type (Object).

5.1.4 -> 5.1.5

- ArraySet was implementing isEmpty() with inverted logic (thanks to Marko Srdanovic for reporting this bug).

- New constructor for FastMultiByteArrayInputStream: it takes a MeasurableInputStream and uses length() to determine the number of bytes to load into memory.

5.1.3 -> 5.1.4

- The implementation of RepositionableStream in FastByteArrayOutputStream was fraught with a horrendous bug (thanks to Claudio Corsi for reporting), in spite of extensive unit tests.

5.1.2 -> 5.1.3

- A bug existing since the first release was preventing tables larger than  $2^{30}$  bits to work (the computation of the next bucket to look at would cause an integer overflow).

- FastByteArrayOutputStream now implements RepositionableStream.

- Type-specific versions of Iterable.

- Some methods (e.g., iterator() and values()) are now explicitly re-strengthened wherever necessary to avoid complaints about ambiguous method invocations by some compilers.

- The introduction of functions added several bugs to the empty/singleton map classes. Inheriting from the respective function counterparts left several methods underspecified (equals(), etc.). This has been (hopefully) fixed.

5.1.1 -> 5.1.2

- FastBufferedInputStream now supportw length() by FileChannel-fetching on FileInputStream instances (it already used to support position() by the same mechanism).

5.1.0 -> 5.1.1

- Byte-array MG4J I/O classes have been moved here.

5.0.9 -> 5.1.0

- Fixed documentation for custom/noncustom maps (it was exchanged).

- New type-specific `entrySet()` methods that avoid complicated casting to get a type-specific `entryset`. Moreover, now `entrySet()` can return an object implementing `Fast(Sorted)EntrySet` to indicate that a `fastIterator()` method is available. Fast iterators can return always the same `Entry` object, suitably mutated. We thank Daniel Ramage for suggesting this feature.

- Several hundreds of new classes generated by the new `Function` interface, which represent mappings for which the entry set is not enumerable (e.g., hashes). Functions have their usual share of satellite objects (wrappers, etc.). There are no implementations--the main purpose of the new interfaces is to make `Sux4J` (<http://sux.dsi.unimi.it/>) more object-oriented.

5.0.8 -> 5.0.9

- Slightly reduced overhead for bound checks in heap-based queues.

- `BinIO` was loading byte arrays one byte at a time. Now some conditionally compiled code uses bulk-read methods instead. Moreover, horrible kluges to work around Java bug #6478546 have been included.

5.0.7 -> 5.0.8

- Faster array maps and sets: `System.arraycopy()` is very slow on small arrays (due to inherent costs of calling native code) and reflection-based array creation is a disaster. Now we use object arrays and loops.

- New `clone()` methods for array-based structures and custom serialisation.

- `FastBuffered*Stream` has been simplified and streamlined. No more block alignment.

5.0.6 -> 5.0.7

- Better algorithm for `front()` in heaps.

- New comprehensive collection of array-based maps and sets. The motivation behind such structures is the need for quick, low-footprint data structures for *very* small sets (say, less than 10 elements). For instance, in `MG4J` we were using sparse reference-based hash tables, but it turned out that `System.identityHashCode()` is *deadly* slow and scanning linearly an array searching for the desired element is significantly faster.

5.0.5 -> 5.0.6

- Due to erratic and unpredictable behaviour of `InputStream.skip()`, which

does not correspond to its specification  
and Sun refuses to fix (see bug  
6222822; don't be fooled by the "closed, fixed" label),  
FastBufferedInputStream now peeks at the underlying stream and if it is  
System.in it uses repeated reads. Moreover, it will use alternatively  
reads and skips to guarantee that the number of skipped bytes will be  
smaller than requested only if end of file has been reached.

- The insertion and key retrieval methods of hash-based structures are now protected and final.
- New front() method for indirect queues. It retrieves quickly the indices associated to elements equal to the top.
- First JUnit tests.

5.0.4 -> 5.0.5

- Fixed possible overflow in FastBufferedInputStream.available().
- Indirect heaps have faster checks for elements belonging or not to the queue. In particular, we just rely on array access for detecting indices out of bounds. Profiling with LaMa4J showed that in some circumstances checking explicitly the indices were within bounds was taking more time than the actual heap inner workings.
- Fixed obnoxious bug dating to the first fastutil implementation. The macro KEY\_EQUALS\_HASH(x,h,y), which checks for equality between x and y given that the hash of x is h, was evaluating hashCode() on y without guarantee that y was non-null. As a result, adding a null to a mapped followed by the insertion of an element with hash code 0 would have thrown a NullPointerException. The bug went unobserved for years because no one use nulls as keys, and was actually detected by a bug in BUbiNG's code (which was in turn mistakenly inserting nulls in a set).

5.0.3 -> 5.0.4

- Fixed missing declaration of generic type for HASH\_STRATEGY.
- A new abstract class, MeasurableInputStream, is used for streams whose length and current position are always known. This actually was needed for BUbiNG development.
- New readLine() family of method for reading "lines" directly from a FastBufferedInputStream.
- In FastBufferedInputStream, reset() has

been deprecated in favour  
of flush().

- Array-based lists of objects now reallocate the backing array using reflection \*only\* if they were created by wrapping. This won't change the previous behaviour, but at the price of a boolean per list we have unbelievably faster array reallocation.

- New explicit fast load factors in Hash.

5.0.2 -> 5.0.3

- Bizarrely, java.util.List re-specifies iterator(), even if it extends Collection. As a result, we need to re-strengthen it in type-specific lists.

- Fixed new horrible bug introduced by adding Booleans to BinIO and TextIO. Problem is, I didn't know #assert is cumulative.

5.0.1 -> 5.0.2

- Fixed bug in sorted maps key sets and values that would cause a stack overflow when calling size() and a few other methods.

- Fixed lack of booleans in BinIO and TextIO.

- BinIO now checks for too large files.

5.0 -> 5.0.1

- In BinIO, it was assumed that .SIZE would give the size of primitive types in \*bytes\*. Bad mistake.

4.4.3 ->

5.0

- Java 5 only!

- Support for generics. This led to a number of backward-incompatible changes:

- \* toArray(Object[]) does not accept any longer null as an argument;
- \* singletons for empty collections (sets, lists, ecc.) are type-specific;
- \* iterators on sorted collections are bidirectional \*by specification\*;
- \* the new, covariantly stronger methods defined in all interfaces (e.g., iterator() returning a type-specific iterator) are now the default, and in the abstract classes the old methods (e.g., objectIterator()) now just delegate to the standard method, which is the contrary of what was happening before: you'll have to turn all methods such as objectIterator() in iterator(), etc.
- \* all deprecated methods have been dropped.

- Array growth functions now will return the correct empty array for object arrays (it used to return `ObjectArrays.EMPTY_ARRAY`).
- Strategies are generic and no longer required to accept `REMOVED`.
- Stale references could hang around in the `nodePath` array for Red-Black trees and map; this has been fixed.
- The difference in semantics with the standard `toArray(Object[])` specification, which has always been in place, is now exhaustively explained.
- Major code cleanup (mostly code deletion) due to passing `fastutil` into Eclipse to check unused code, etc.

4.4.2 -> 4.4.3

- Important bug fix in `FastBufferedInputStream`.

4.4.1 -> 4.4.2

- New `reset()` method to invalidate the buffer of a `FastBufferedInputStream`, making it possible to read safely files written by other processes (given, of course, that you are synchronising the accesses).

4.4.0 -> 4.4.1

- New parallel-array constructor for all maps. Very useful for static final map initialisation.
- Following considerations in Jakarta Commons I/O, the standard buffer size has been lowered to 8Ki.
- Some arguments were declared as `DataInputStream` instead of `DataInput`.
- New methods for reading/writing objects from/to streams.

4.3.2

-> 4.4

- New static containers for reading and writing easily text and binary data streams. They load/save arrays, iterators etc. to buffered readers or streams.
- Moved here fast input/output buffered classes from MG4J. This makes



fastutil self-contained.

- The trivial implementation of the type-specific iterator was missing from AbstractList.drv (surprisingly, not from the subclass implementation!).
- The sublist implementation in AbstractList.drv is now protected and static. The attributes are protected, too.
- Now we compare booleans (false<true). As a result, also lists of booleans do get lexicographical comparability.
- add(k) in AbstractList.drv now calls add(size(), k).
- Fixed error messages for out-of-bound indices in lists.

4.3.1 -> 4.3.2

- Fixed small innocuous bug: a code fragment related to non-linked hash table was generated for linked hash tables, too, do to a case type in a preprocessor directive. The code fragment, however, had no effect.
- Fixed memory leak in OpenHashMap: the remove() method was not clearing the key (whereas OpenHashSet was).

4.3 -> 4.3.1

- New fully indirect heap-based double priority queues.
- Fixed docs for queues: in 4.3, we were claiming that greater elements are dequeued first, while the opposite happens.

4.2 -> 4.3

- New full-fledged set of unmodifiable structures \*and\* iterators.
- Removed about a dozen spurious final method modifiers.
- Made rehash() protected, so that everybody can play with different rehashing strategies.
- trim() in array lists wasn't doing the right thing, because trim(int) wasn't doing it in the first place. Now if n is smaller than the size of the list, we trim at the list size (previously we were doing nothing).
- Analogously, trim() in hash-table-based structures was fixed so that trimming a table below its size will result in rehashing to the minimum

possible size.

4.1 -> 4.2

- Improved array methods: now all methods on objects (e.g., `grow()`) return an array of the same type of the array that was passed to them, similarly to `toArray()` in collections.
- Fixed missing macro substitution for empty iterator methods. In any case, they were already deprecated.

4.0 -> 4.1

- New classes for custom hashing methods (mainly thought for arrays). Correspondingly, methods for arrays have been implemented in the static containers.
- `BasicEntry` now throws an `UnsupportedOperationException` on calls to `setValue()`. If you ever used that method, you got wierd results, as it does not update the underlying map. The method is now implemented correctly in open hash maps, in which previously did not correctly update the underlying map.
- Reimplemented copy of an entire array using `clone()`.
- Fixed a bug in `clear()` for indirect heaps (the inversion array was not being cleared).
- Indirect priority queue interfaces now feature an optional `allChanged()` method that can be used to force a complete heap rebuild. It is implemented by all current array-based and head-based concrete classes.

3.1 -> 4.0

- IMPORTANT: The optimized methods that a type-specific must provide now include an `addElements()` method that quickly adds an array of elements. As usual, the method is fully implemented by the type-specific abstract lists.
- IMPORTANT: The abstract generic version of `get()`, `put()` and `remove()` for maps with non-object keys or values now always return null to denote a missing key. They used to return an object-wrapped default return value.
- Completely new and comprehensive implementation of priority queues, both direct and indirect. Implementations are by heaps and by flat arrays. There are also static containers with all relevant heap methods, for people wanting to do their own thing.

- New static containers for comparators.
- All singletons, empty sets and synchronized wrappers are public so you can inherit from them.
- Abstract maps now provide `keySet()` and `values()` based on `entrySet()`.
- New abstract classes for sorted sets and maps with delegators to type-specific methods.
- New public methods in `Arrays` and in type-specific `Arrays` classes for checking ranges.
- New static methods for type-specific arrays that allow to grow, enlarge and trim them with ease.
- Clarified abstract implementation of default return values, and implemented clarified specification. Just a couple of method in hash maps were not already compliant.
- The `pour()` method now returns a list. The previous version was returning a linked hash set, which was rather nonsensical anyway, since an iterator build on the returned set could have been different from the original iterator. You can always pour an iterator into a set by providing the set explicitly.
- An exception-throwing implementation of some methods in `AbstractSet` was missing. Same for `AbstractCollection`, `AbstractMap` and `AbstractList`.
- New basic inner entry class for abstract maps, which makes it easier to write `entrySet()` methods for classes that do not have their own entries.
- Added missing `get(Object)` method in `AbstractMap` (just delegates to the type-specific version).
- For lazy people, now `containsKey()` and `containsValue()` in `AbstractMap` are defined by looking into `keySet()` and `values()`.
- Fixed a few methods of `EMPTY_LIST` which were throwing exception semantically (see the introduction).
- The interval iterators are now list iterators, except for longs.
- Fixed a bug in `size()` for array lists (reducing the size of an array would lead to an exception).

- Fixed double bug in hash tables: first of all, on very small sizes adding growthFactor would have left the size unchanged, giving rise to infinite loops. (Thanks to Heikki Uusitalo for reporting this bug.) Second, growthFactor was not being used \*at all\* by hash maps.
- Fixed entries emitted by singleton maps. Now they are type-specific.
- Fixed a number of minor glitches in gencsource.sh, and added some comments.
- HashCommon.removed has been renamed HashCommon.REMOVED.
- Boolean objects are now generated using valueOf() instead of the constructor.
- New type-specific wrappers for list iterators.

3.0 -> 3.1

- IMPORTANT: it.unimi.dsi.fastutil.Iterators methods have been spread in type-specific static containers.
- New Stack interface, implemented by type-specific lists.
- New static container classes Collections, Sets, and Lists. Presently they just provide empty containers.
- New type-specific static contains (e.g., IntSets) providing singletons and synchronized wrappers.
- Entry sets now have entries that are equal() to entries coming from corresponding maps in java.util.
- Spelling everywhere changed to Pure American. "synchronized" in code and "synchronise" in text side-by-side were looking really wierd...

3.0 -> 3.0.1

- New unwrap() methods for type-specific collections.
- Fixed old-as-world-bug, apparently wide but that evidently no one ever noticed: AbstractMap was not serialisable, and, as a result, the default return value was not serialised (I find sincerely counterintuitive that making a class serialisable doesn't do the same for its supertypes). It wasn't ever even \*documented\* as preserved, so probably everyone thought this was my idea, too. Too bad this breaks once more serialisation compatibility. Since I had to break some serialisation anyway, I decided to eliminate the residual serialisation of p in hash table classes, too

(which breaks serialisation for all hash-based classes).

2.60 -> 3.0

- IMPORTANT: All classes have been repackaged following the type of elements/keys. Sources will have to be retouched (just to change the import clause) and recompiled.
- IMPORTANT: Because of an unavoidable name clash in the new type-specific list interface, the method `remove(int)` of `IntCollection` has been renamed `rem(int)`. The only really unpleasant effect is that you must use `rem(int)` on variables of type `IntCollection` that are not of type `IntSet` (as `IntSet` reinstates `remove(int)` in its right place)--for instance, `IntList`.
- Brand-new implementation of type-specific lists, with all the features you'd expect and more.
- Insertions for `readObject()` in hash tables are now handled in a special way (20% faster).
- Implemented linear-time tree reconstruction for `readObject()` (in practice, more than twice faster).
- Fixed a problem with serialisation of hash tables: the table would have been reloaded with the same `p`, even if it was preposterous. We still save `p`, however, to avoid breaking serialisation compatibility.
- Fixed missing implementation of type-specific sets, which should have extended type-specific collections, but they weren't.
- The default return value is now protected.
- New family of `pour()` methods that pour an iterator into a set.
- New programmable growth factor for hash-table-based classes.
- Eliminated a few useless method calls in tree map.
- Wide range of complex assertions, which are compiled in or out using the "private static final boolean" idiom.
- For references we now use `System.identityHashCode()`; this shouldn't change much, but it seems definitely more sensible.
- Fixed major bug in `subSet()/subMap()`: creating a `subMap` of a `tailMap` (or `headMap`) a right extreme (left, resp.) equal to 0 would have caused the

creation of a tailMap (or headMap, resp.), discarding the extreme. Very, very unlikely, but it happened in a test.

- Fixed small bug in standard remove() method of submaps, which would have returned a default return value wrapped in a suitable object instead of null on non-existing keys.

2.52 -> 2.60

- **IMPORTANT:** Major overhaul of iterators. Now iterators must be skippable, so previous implementation of type-specific iterator interfaces will not work. However, new abstract classes allow to build iterator with ease by providing for free the skipping logic, and many useful static methods in Iterators allow to generate type-specific iterators wrapping standard iterators, arrays, etc.
- Better strategy for clear() on hash tables: we don't do anything only if all entries are free (which means that an empty table with deleted entry will be cleared).

2.51 -> 2.52

- **IMPORTANT:** The package name has changed to it.unimi.dsi.fastutil to be uniform with JPackage conventions. However, this means that you must manually erase the old one and update your sources.
- clear() doesn't do anything on empty hash tables.

2.50 -> 2.51

- New trim(int) method to reduce a hash table size avoiding to make it too small.
- serialVersionUID is now fixed, to avoid future incompatibilities.

2.11 -> 2.50

- **IMPORTANT:** The Collection interface now prescribes an iterator method with a type-specific name (e.g., intIterator()) that returns directly a type-specific iterator.
- New Reference maps and sets that allow to store more quickly canonised objects.
- New linked maps mimicking java.util's, but with a boatload of additional features.

- Small bug fix: the `get(Object)` method would return null instead of the default return value for maps with object keys.
- Major bug fix: iterating backwards on submaps was leading to unpredictable results.
- Major bug fix: cloning maps would have caused inconsistent behaviour.
- Major code redistribution: now whenever possible wrappers belong to abstract superclasses.

#### 2.1 -> 2.11

- Now we cache the hash of an object before entering the hash table loop.

#### 2.0 -> 2.1

- A simple optimisation in hash-table inner loops has given quite a performance boost under certain conditions (we do not compute the secondary hashing if it is not necessary). Inspired by Gnu Trove.
- The `trim()` method would have in fact trimmed nothing, just rehashed the table.
- The computed `maxFill` value was slightly too small.
- Also tree sets now have constructors from arrays.
- More internal methods have been made final.

#### 1.3 -> 2.0

-

ALL MAPS AND SETS HAVE NEW NAMES DEPENDING ON THE IMPLEMENTATION.

- Introducing new high-performance, low memory-footprint implementation of `SortedMap` and `SortedSet`.
- Two tree implementations are available: RB trees and AVL trees. Both implementations are threaded. See the README.
- Fixed a bug in `hashCode()` and `contains()` for `HashMap.drv` (it was considering keys only!).
- Fixed a bug in `contains()` for `entrySet()` in all maps (it was using `VALUE_EQUAL` to test equality for values given as objects).
- I realised that a default return value can be useful also for maps and sets returning objects, so now you have it. It is even independent for submaps and subsets.
- Classes are no longer final. The performance gain is around 1%, and the decrease in usefulness is orders of magnitudes greater.
- We now check equality using first `hashCode()` and then `equals()`.
- The tests for speed now warm up the trees by doing repeated insertions

and deletions, so that the benefits of a better balancing criterion are more evident.

- The regression tests are much more stringent.
- Fixed hashCode() for hash maps (wasn't conforming to the Map interface specification).
- Implemented linear cloning for tree classes.

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/CHANGES

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/\*

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\*/

package PACKAGE;

import java.util.Iterator;

import java.util.NoSuchElementException;

/\*\* A class providing static methods and objects that do useful things with type-specific iterators.

\*

\* @see Iterator

\*/

public class BIG\_LIST\_ITERATORS {

private BIG\_LIST\_ITERATORS() {}

/\*\* A class returning no elements

and a type-specific big list iterator interface.

\*

\* <P>This class may be useful to implement your own in case you subclass

\* a type-specific iterator.



```

*/

public static class EmptyBigListIterator KEY_GENERIC extends KEY_ABSTRACT_BIG_LIST_ITERATOR
KEY_GENERIC implements java.io.Serializable, Cloneable {

 private static final long serialVersionUID = -7046029254386353129L;

 protected EmptyBigListIterator() {}

 public boolean hasNext() { return false; }
 public boolean hasPrevious() { return false; }
 public KEY_GENERIC_TYPE NEXT_KEY() { throw new NoSuchElementException(); }
 public KEY_GENERIC_TYPE PREV_KEY() { throw new NoSuchElementException(); }
 public long nextIndex() { return 0; }
 public long previousIndex() { return -1; }
 public long skip(long n) { return 0; };
 public long back(long n) { return 0; };
 public Object clone() { return EMPTY_BIG_LIST_ITERATOR; }
 private Object readResolve() { return EMPTY_BIG_LIST_ITERATOR; }
}

/** An empty
iterator (immutable). It is serializable and cloneable.
*
* <P>The class of this objects represent an abstract empty iterator
* that can iterate as a type-specific (list) iterator.
*/

SUPPRESS_WARNINGS_KEY_RAWTYPES
public final static EmptyBigListIterator EMPTY_BIG_LIST_ITERATOR = new EmptyBigListIterator();

/** An iterator returning a single element. */

private static class SingletonBigListIterator KEY_GENERIC extends KEY_ABSTRACT_BIG_LIST_ITERATOR
KEY_GENERIC {
 private final KEY_GENERIC_TYPE element;
 private int curr;

 public SingletonBigListIterator(final KEY_GENERIC_TYPE element) {
 this.element = element;
 }

 public boolean hasNext() { return curr == 0; }
 public boolean hasPrevious() { return curr == 1; }

 public KEY_GENERIC_TYPE NEXT_KEY() {
 if (! hasNext()) throw new NoSuchElementException();

```

```

curr = 1;
return element;
}

public KEY_GENERIC_TYPE PREV_KEY() {
if (! hasNext()) throw new NoSuchElementException();
curr = 0;
return
element;
}

public long nextIndex() {
return curr;
}

public long previousIndex() {
return curr - 1;
}
}

/** Returns an iterator that iterates just over the given element.
 *
 * @param element the only element to be returned by a type-specific list iterator.
 * @return an iterator that iterates just over <code>element</code>.
 */
public static KEY_GENERIC KEY_BIG_LIST_ITERATOR KEY_GENERIC singleton(final
KEY_GENERIC_TYPE element) {
return new SingletonBigListIterator KEY_GENERIC(element);
}

/** An unmodifiable wrapper class for big list iterators. */

public static class UnmodifiableBigListIterator KEY_GENERIC extends
KEY_ABSTRACT_BIG_LIST_ITERATOR KEY_GENERIC {
final protected KEY_BIG_LIST_ITERATOR KEY_GENERIC i;

public UnmodifiableBigListIterator(final KEY_BIG_LIST_ITERATOR KEY_GENERIC i) {
this.i = i;
}

public boolean hasNext() { return i.hasNext(); }
public boolean hasPrevious() { return i.hasPrevious(); }
public
KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
public KEY_GENERIC_TYPE PREV_KEY() { return i.PREV_KEY(); }
public long nextIndex() { return i.nextIndex(); }
}

```

```

 public long previousIndex() { return i.previousIndex(); }
#if #keys(primitive)
 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public KEY_GENERIC_CLASS next() { return i.next(); }
 /** {@inheritDoc}
 * @deprecated Please use the corresponding type-specific method instead. */
 @Deprecated
 public KEY_GENERIC_CLASS previous() { return i.previous(); }
#endif
}

/** Returns an unmodifiable list iterator backed by the specified list iterator.
 *
 * @param i the list iterator to be wrapped in an unmodifiable list iterator.
 * @return an unmodifiable view of the specified list iterator.
 */
public static KEY_GENERIC KEY_BIG_LIST_ITERATOR KEY_GENERIC unmodifiable(final
KEY_BIG_LIST_ITERATOR KEY_GENERIC i) { return new UnmodifiableBigListIterator KEY_GENERIC(
i); }

/** A class exposing a list iterator as a big-list iterator.. */

public static class BigListIteratorListIterator KEY_GENERIC extends KEY_ABSTRACT_BIG_LIST_ITERATOR
KEY_GENERIC {
 protected final KEY_LIST_ITERATOR KEY_GENERIC i;

 protected BigListIteratorListIterator(final KEY_LIST_ITERATOR KEY_GENERIC i) {
 this.i = i;
 }

 private int intDisplacement(long n) {
 if (n < Integer.MIN_VALUE || n > Integer.MAX_VALUE) throw new IndexOutOfBoundsException("This big
iterator is restricted to 32-bit displacements");
 return (int)n;
 }

 public void set(KEY_GENERIC_TYPE ok) { i.set(ok); }
 public void add(KEY_GENERIC_TYPE ok) { i.add(ok); }
 public int back(int n) { return i.back(n); }
 public long back(long n) { return i.back(intDisplacement(n)); }
 public void remove() { i.remove(); }
 public int skip(int n) { return i.skip(n); }
 public long skip(long n) { return i.skip(intDisplacement(n)); }
 public boolean hasNext()

```

```

{ return i.hasNext(); }
public boolean hasPrevious() { return i.hasPrevious(); }
public KEY_GENERIC_TYPE NEXT_KEY() { return i.NEXT_KEY(); }
public KEY_GENERIC_TYPE PREV_KEY() { return i.PREV_KEY(); }
public long nextIndex() { return i.nextIndex(); }
public long previousIndex() { return i.previousIndex(); }
}

/** Returns a big-list iterator backed by the specified list iterator.
 *
 * @param i the list iterator to adapted to the big-list-iterator interface.
 * @return a big-list iterator backed by the specified list iterator.
 */
public static KEY_GENERIC KEY_BIG_LIST_ITERATOR KEY_GENERIC asBigListIterator(final
KEY_LIST_ITERATOR KEY_GENERIC i) { return new BigListIteratorListIterator KEY_GENERIC(i); }
}

```

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/BigListIterators.drv

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```

/*
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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */

```

```
package PACKAGE;
```

```

import java.util.Arrays;
import java.util.Collection;
import java.util.Iterator;
import java.util.RandomAccess;
import java.util.NoSuchElementException;

```

```
#if #keys(primitive)
```

```

/** A type-specific array-based list; provides some additional methods that use polymorphism to avoid (un)boxing.
 *
 *
 * <P>This class implements a lightweight, fast, open, optimized,
 * reuse-oriented version of array-based lists. Instances of this class
 * represent a list with an array that is enlarged as needed when new entries
 * are created (by doubling its current length), but is
 * never made smaller (even on a { @link #clear()}). A family of
 * { @linkplain #trim() trimming methods} lets you control the size of the
 * backing array; this is particularly useful if you reuse instances of this class.
 * Range checks are equivalent to those of { @link java.util}'s classes, but
 * they are delayed as much as possible. The backing array is exposed by the
 * { @link #elements()} method.
 *
 *
 * <p>This class implements the bulk methods <code>removeElements()</code>,
 * <code>addElements()</code> and <code>getElements()</code> using
 * high-performance system calls (e.g., { @link
 * System#arraycopy(Object,int,Object,int,int) System.arraycopy()}) instead of
 * expensive loops.
 *
 *
 * @see java.util.ArrayList
 */

```

```

public class ARRAY_LIST KEY_GENERIC extends ABSTRACT_LIST KEY_GENERIC implements
RandomAccess, Cloneable, java.io.Serializable {
private static final long serialVersionUID = -7046029254386353130L;

```

```

#else

```

```

/** A type-specific array-based list; provides some additional methods that use polymorphism to avoid (un)boxing.
 *
 *
 * <P>This class implements a lightweight, fast, open, optimized,
 * reuse-oriented version of array-based lists. Instances of this class
 * represent a list with an array that is enlarged as needed when new entries
 * are created (by doubling the current length), but is
 * never made smaller (even on a { @link #clear()}). A family of
 * { @linkplain #trim() trimming methods} lets you control the size of the
 * backing array; this is particularly useful if you reuse instances of this class.
 * Range checks are equivalent to those of { @link java.util}'s classes, but
 * they are delayed as much as possible.
 *
 *
 * <p>The backing array is exposed by the
 * { @link #elements()} method. If an instance
 * of this class was created { @linkplain #wrap(Object[],int) by wrapping},
 * backing-array reallocations will be performed using reflection, so that
 * { @link #elements()} can return an array of the same type of the original array: the comments
 * about efficiency made in { @link it.unimi.dsi.fastutil.objects.ObjectArrays} apply here.

```

```

* Moreover, you must take into consideration that assignment to an array
* not of type {@code Object[]} is slower due to type checking.
*
* <p>This class implements the bulk methods <code>removeElements()</code>,
* <code>addElements()</code> and <code>getElements()</code> using
* high-performance system calls (e.g., {@link
* System#arraycopy(Object,int,Object,int,int) System.arraycopy()}) instead of
* expensive loops.
*
* @see java.util.ArrayList
*/

```

```

public class ARRAY_LIST KEY_GENERIC extends ABSTRACT_LIST KEY_GENERIC implements
RandomAccess, Cloneable, java.io.Serializable {
 private static final long
 serialVersionUID = -7046029254386353131L;

```

```

#endif

```

```

/** The initial default capacity of an array list. */
public final static int DEFAULT_INITIAL_CAPACITY = 16;

```

```

#if ! #keys(primitive)
/** Whether the backing array was passed to <code>wrap()</code>. In
 * this case, we must reallocate with the same type of array. */
protected final boolean wrapped;
#endif

```

```

/** The backing array. */
protected transient KEY_GENERIC_TYPE a[];

```

```

/** The current actual size of the list (never greater than the backing-array length). */
protected int size;

```

```

private static final boolean ASSERTS = ASSERTS_VALUE;

```

```

/** Creates a new array list using a given array.
 *
 * <P>This constructor is only meant to be used by the wrapping methods.
 *
 * @param a the array that will be used to back this array list.
 */

```

```

@SuppressWarnings("unused")
protected ARRAY_LIST(final KEY_GENERIC_TYPE a[], boolean dummy) {
 this.a = a;
#if ! #keys(primitive)

```

```

 this.wrapped = true;
#endif
}

/** Creates a new
array list with given capacity.
*
* @param capacity the initial capacity of the array list (may be 0).
*/

SUPPRESS_WARNINGS_KEY_UNCHECKED
public ARRAY_LIST(final int capacity) {
 if (capacity < 0) throw new IllegalArgumentException("Initial capacity (" + capacity + ") is negative");

 a = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[capacity];
 #if ! #keys(primitive)
 wrapped = false;
 #endif
}

/** Creates a new array list with { @link #DEFAULT_INITIAL_CAPACITY } capacity.
*/

public ARRAY_LIST() {
 this(DEFAULT_INITIAL_CAPACITY);
}

/** Creates a new array list and fills it with a given collection.
*
* @param c a collection that will be used to fill the array list.
*/

public ARRAY_LIST(final Collection<? extends KEY_GENERIC_CLASS> c) {
 this(c.size());
 #if #keys(primitive)
 size = ITERATORS.unwrap(ITERATORS.AS_KEY_ITERATOR(c.iterator()), a);
 #else
 size = ITERATORS.unwrap(c.iterator(), a);
 #endif
}

/** Creates a new array list and fills it
with a given type-specific collection.
*
* @param c a type-specific collection that will be used to fill the array list.
*/

public ARRAY_LIST(final COLLECTION KEY_EXTENDS_GENERIC c) {

```

```

this(c.size());
size = ITERATORS.unwrap(c.iterator(), a);
}

/** Creates a new array list and fills it with a given type-specific list.
 *
 * @param l a type-specific list that will be used to fill the array list.
 */

public ARRAY_LIST(final LIST KEY_EXTENDS_GENERIC l) {
 this(l.size());
 l.getElements(0, a, 0, size = l.size());
}

/** Creates a new array list and fills it with the elements of a given array.
 *
 * @param a an array whose elements will be used to fill the array list.
 */

public ARRAY_LIST(final KEY_GENERIC_TYPE a[]) {
 this(a, 0, a.length);
}

/** Creates a new array list and fills it with the elements of a given array.
 *
 * @param a an array whose elements will be used to fill the array list.
 * @param offset the first element to
use.
 * @param length the number of elements to use.
 */

public ARRAY_LIST(final KEY_GENERIC_TYPE a[], final int offset, final int length) {
 this(length);
 System.arraycopy(a, offset, this.a, 0, length);
 size = length;
}

/** Creates a new array list and fills it with the elements returned by an iterator..
 *
 * @param i an iterator whose returned elements will fill the array list.
 */

public ARRAY_LIST(final Iterator<? extends KEY_GENERIC_CLASS> i) {
 this();
 while(i.hasNext()) this.add(i.next());
}

/** Creates a new array list and fills it with the elements returned by a type-specific iterator..

```



```

*
* @param i a type-specific iterator whose returned elements will fill the array list.
*/

public ARRAY_LIST(final KEY_ITERATOR KEY_EXTENDS_GENERIC i) {
 this();
 while(i.hasNext()) this.add(i.NEXT_KEY());
}

#if #keys(primitive)
/** Returns the backing array of this list.
*
* @return the backing array.
*/

public KEY_GENERIC_TYPE[]
elements() {
 return a;
}
#else
/** Returns the backing array of this list.
*
* <P>If this array list was created by wrapping a given array, it is guaranteed
* that the type of the returned array will be the same. Otherwise, the returned
* array will be of type { @link Object Object[]} (in spite of the declared return type).
*
* <P>Warning: This behaviour may cause (unfathomable)
* run-time errors if a method expects an array
* actually of type <code>K[]</code>, but this methods returns an array
* of type { @link Object Object[]}.
*
* @return the backing array.
*/

public K[] elements() {
 return a;
}
#endif

/** Wraps a given array into an array list of given size.
*
* <P>Note it is guaranteed
* that the type of the array returned by { @link #elements() } will be the same
* (see the comments in the class documentation).
*
* @param a an array to wrap.
* @param length the length of the resulting array list.
* @return a new

```

```

array list of the given size, wrapping the given array.
*/

public static KEY_GENERIC ARRAY_LIST KEY_GENERIC wrap(final KEY_GENERIC_TYPE a[], final int
length) {
 if (length > a.length) throw new IllegalArgumentException("The specified length (" + length + ") is greater than
the array size (" + a.length + ")");
 final ARRAY_LIST KEY_GENERIC l = new ARRAY_LIST KEY_GENERIC(a, false);
 l.size = length;
 return l;
}

/** Wraps a given array into an array list.
 *
 * <P>Note it is guaranteed
 * that the type of the array returned by { @link #elements() } will be the same
 * (see the comments in the class documentation).
 *
 * @param a an array to wrap.
 * @return a new array list wrapping the given array.
 */

public static KEY_GENERIC ARRAY_LIST KEY_GENERIC wrap(final KEY_GENERIC_TYPE a[]) {
 return wrap(a, a.length);
}

/** Ensures that this array list can contain the given number of entries without resizing.
 *
 * @param capacity the new minimum capacity
for this array list.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public void ensureCapacity(final int capacity) {
 #if #keys(primitive)
 a = ARRAYS.ensureCapacity(a, capacity, size);
 #else
 if (wrapped) a = ARRAYS.ensureCapacity(a, capacity, size);
 else {
 if (capacity > a.length) {
 final Object t[] = new Object[capacity];
 System.arraycopy(a, 0, t, 0, size);
 a = (KEY_GENERIC_TYPE[])t;
 }
 }
 #endif
 if (ASSERTS) assert size <= a.length;
}

```

```

/** Grows this array list, ensuring that it can contain the given number of entries without resizing,
 * and in case enlarging it at least by a factor of two.
 *
 * @param capacity the new minimum capacity for this array list.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
private void grow(final int capacity) {
#if #keys(primitive)
 a = ARRAYS.grow(a, capacity, size);
#else
 if (wrapped) a = ARRAYS.grow(a, capacity, size);
 else {
 if (capacity > a.length) {
 final int newLength = (int)Math.max(Math.min(
2L * a.length, it.unimi.dsi.fastutil.Arrays.MAX_ARRAY_SIZE), capacity);
 final Object t[] = new Object[newLength];
 System.arraycopy(a, 0, t, 0, size);
 a = (KEY_GENERIC_TYPE[])t;
 }
 }
#endif
 if (ASSERTS) assert size <= a.length;
}

public void add(final int index, final KEY_GENERIC_TYPE k) {
 ensureIndex(index);
 grow(size + 1);
 if (index != size) System.arraycopy(a, index, a, index + 1, size - index);
 a[index] = k;
 size++;
 if (ASSERTS) assert size <= a.length;
}

public boolean add(final KEY_GENERIC_TYPE k) {
 grow(size + 1);
 a[size++] = k;
 if (ASSERTS) assert size <= a.length;
 return true;
}

public KEY_GENERIC_TYPE GET_KEY(final int index) {
 if (index >= size) throw new IndexOutOfBoundsException("Index (" + index + ") is greater than or equal to list
size (" + size + ")");
 return a[index];
}

public int indexOf(final KEY_TYPE k) {

```

```

 for(int i = 0; i < size; i++) if (KEY_EQUALS(k, a[i]
)) return i;
 return -1;
}

```

```

public int lastIndexOf(final KEY_TYPE k) {
 for(int i = size; i-- != 0;) if (KEY_EQUALS(k, a[i])) return i;
 return -1;
}

```

```

public KEY_GENERIC_TYPE REMOVE_KEY(final int index) {
 if (index >= size) throw new IndexOutOfBoundsException("Index (" + index + ") is greater than or equal to list
size (" + size + ")");
 final KEY_GENERIC_TYPE old = a[index];
 size--;
 if (index != size) System.arraycopy(a, index + 1, a, index, size - index);
#ifdef keys(reference)
 a[size] = null;
#endif
 if (ASSERTS) assert size <= a.length;
 return old;
}

```

```

public boolean rem(final KEY_TYPE k) {
 int index = indexOf(k);
 if (index == -1) return false;
 REMOVE_KEY(index);
 if (ASSERTS) assert size <= a.length;
 return true;
}

```

```

#ifdef keys(reference)
public boolean remove(final Object o) {
 return rem(o);
}
#endif

```

```

public KEY_GENERIC_TYPE set(final int index, final KEY_GENERIC_TYPE k) {
 if (index >= size) throw new
IndexOutOfBoundsException("Index (" + index + ") is greater than or equal to list size (" + size + ")");
 KEY_GENERIC_TYPE old = a[index];
 a[index] = k;
 return old;
}

```

```

public void clear() {
#ifdef keys(reference)

```

```

 Arrays.fill(a, 0, size, null);
#endif
 size = 0;
 if (ASSERTS) assert size <= a.length;
}

public int size() {
 return size;
}

public void size(final int size) {
 if (size > a.length) ensureCapacity(size);
 if (size > this.size) Arrays.fill(a, this.size, size, KEY_NULL);
#if #keys(reference)
 else Arrays.fill(a, size, this.size, KEY_NULL);
#endif
 this.size = size;
}

public boolean isEmpty() {
 return size == 0;
}

/** Trims this array list so that the capacity is equal to the size.
 *
 * @see java.util.ArrayList#trimToSize()
 */
public void trim() {
 trim(0);
}

/** Trims the backing array if it is too large.
 *
 * If the current array length is smaller than or equal to
 * <code>n</code>, this method does nothing.
 * Otherwise, it trims the
 * array length to the maximum between <code>n</code> and { @link #size() }.
 *
 * <P>This method is useful when reusing lists. { @linkplain #clear() Clearing a
 * list} leaves the array length untouched. If you are reusing a list
 * many times, you can call this method with a typical
 * size to avoid keeping around a very large array just
 * because of a few large transient lists.
 *
 * @param n the threshold for the trimming.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED

```

```

public void trim(final int n) {
 // TODO: use Arrays.trim() and preserve type only if necessary
 if (n >= a.length || size == a.length) return;
 final KEY_GENERIC_TYPE t[] = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[Math.max(n, size)];
 System.arraycopy(a, 0, t, 0, size);
 a = t;
 if (ASSERTS) assert size <= a.length;
}

/** Copies element of this type-specific list into the given array using optimized system calls.
 *
 * @param from the start index (inclusive).
 *
 * @param a the destination array.
 * @param offset the offset into the destination array where to store the first element copied.
 * @param length the number of elements to be copied.
 */

public void getElements(final int from, final KEY_TYPE[] a, final int offset, final int length) {
 ARRAYS.ensureOffsetLength(a, offset, length);
 System.arraycopy(this.a, from, a, offset, length);
}

/** Removes elements of this type-specific list using optimized system calls.
 *
 * @param from the start index (inclusive).
 * @param to the end index (exclusive).
 */

public void removeElements(final int from, final int to) {
 it.unimi.dsi.fastutil.Arrays.ensureFromTo(size, from, to);
 System.arraycopy(a, to, a, from, size - to);
 size -= (to - from);
#ifdef keys(reference)
 int i = to - from;
 while(i-- != 0) a[size + i] = null;
#endif
}

/** Adds elements to this type-specific list using optimized system calls.
 *
 * @param index the index at which to add elements.
 *
 * @param a the array containing the elements.
 * @param offset the offset of the first element to add.
 * @param length the number of elements to add.
 */

```

```

public void addElements(final int index, final KEY_GENERIC_TYPE a[], final int offset, final int length) {
 ensureIndex(index);
 ARRAYS.ensureOffsetLength(a, offset, length);
 grow(size + length);
 System.arraycopy(this.a, index, this.a, index + length, size - index);
 System.arraycopy(a, offset, this.a, index, length);
 size += length;
}

```

```

#if #keys(primitive)

```

```

public KEY_TYPE[] TO_KEY_ARRAY(KEY_TYPE a[]) {
 if (a == null || a.length < size) a = new KEY_TYPE[size];
 System.arraycopy(this.a, 0, a, 0, size);
 return a;
}

```

```

public boolean addAll(int index, final COLLECTION c) {
 ensureIndex(index);
 int n = c.size();
 if (n == 0) return false;
 grow(size + n);
 if (index != size) System.arraycopy(a, index, a, index + n, size - index);
 final KEY_ITERATOR i = c.iterator();
 size
+= n;
 while(n-- != 0) a[index++] = i.NEXT_KEY();
 if (ASSERTS) assert size <= a.length;
 return true;
}

```

```

public boolean addAll(final int index, final LIST l) {
 ensureIndex(index);
 final int n = l.size();
 if (n == 0) return false;
 grow(size + n);
 if (index != size) System.arraycopy(a, index, a, index + n, size - index);
 l.getElements(0, a, index, n);
 size += n;
 if (ASSERTS) assert size <= a.length;
 return true;
}

```

```

#endif

```

```

public KEY_LIST_ITERATOR KEY_GENERIC listIterator(final int index) {

```

```

ensureIndex(index);

return new KEY_ABSTRACT_LIST_ITERATOR KEY_GENERIC() {
 int pos = index, last = -1;

 public boolean hasNext() { return pos < size; }
 public boolean hasPrevious() { return pos > 0; }
 public KEY_GENERIC_TYPE NEXT_KEY() { if (! hasNext()) throw new NoSuchElementException(); return a[
last = pos++]; }
 public KEY_GENERIC_TYPE PREV_KEY() { if (! hasPrevious()) throw new NoSuchElementException(); return
a[
last = --pos]; }
 public int nextIndex() { return pos; }
 public int previousIndex() { return pos - 1; }
 public void add(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 ARRAY_LIST.this.add(pos++, k);
 last = -1;
 }
 public void set(KEY_GENERIC_TYPE k) {
 if (last == -1) throw new IllegalStateException();
 ARRAY_LIST.this.set(last, k);
 }
 public void remove() {
 if (last == -1) throw new IllegalStateException();
 ARRAY_LIST.this.REMOVE_KEY(last);
 /* If the last operation was a next(), we are removing an element *before* us, and we must decrease pos
correspondingly. */
 if (last < pos) pos--;
 last = -1;
 }
};
}

public ARRAY_LIST KEY_GENERIC clone() {
 ARRAY_LIST KEY_GENERIC c = new ARRAY_LIST KEY_GENERIC(size);
 System.arraycopy(a, 0, c.a, 0, size);
 c.size = size;
 return c;
}

#if #keyclass(Object)
private boolean valEquals(final K a, final K b) {
 return
 a == null ? b == null : a.equals(b);
}
#endif

```



```

/** Compares this type-specific array list to another one.
 *
 * <P>This method exists only for sake of efficiency. The implementation
 * inherited from the abstract implementation would already work.
 *
 * @param l a type-specific array list.
 * @return true if the argument contains the same elements of this type-specific array list.
 */
public boolean equals(final ARRAY_LIST KEY_GENERIC l) {
 if (l == this) return true;
 int s = size();
 if (s != l.size()) return false;
 final KEY_GENERIC_TYPE[] a1 = a;
 final KEY_GENERIC_TYPE[] a2 = l.a;

 #if #keyclass(Object)
 while(s-- != 0) if (! valEquals(a1[s], a2[s])) return false;
 #else
 while(s-- != 0) if (a1[s] != a2[s]) return false;
 #endif
 return true;
}

#if ! #keyclass(Reference)

/** Compares this array list to another array list.
 *
 * <P>This method exists only for sake of efficiency. The implementation
 * inherited
from the abstract implementation would already work.
 *
 * @param l an array list.
 * @return a negative integer,
 * zero, or a positive integer as this list is lexicographically less than, equal
 * to, or greater than the argument.
 */
SUPPRESS_WARNINGS_KEY_UNCHECKED
public int compareTo(final ARRAY_LIST KEY_EXTENDS_GENERIC l) {
 final int s1 = size(), s2 = l.size();
 final KEY_GENERIC_TYPE a1[] = a, a2[] = l.a;
 KEY_GENERIC_TYPE e1, e2;
 int r, i;

 for(i = 0; i < s1 && i < s2; i++) {
 e1 = a1[i];
 e2 = a2[i];

```

```

 if ((r = KEY_CMP(e1, e2)) != 0) return r;
}

return i < s2 ? -1 : (i < s1 ? 1 : 0);
}
#endif

private void writeObject(java.io.ObjectOutputStream s) throws java.io.IOException {
 s.defaultWriteObject();
 for(int i = 0; i < size; i++) s.WRITE_KEY(a[i]);
}

SUPPRESS_WARNINGS_KEY_UNCHECKED
private void readObject(java.io.ObjectInputStream s) throws java.io.IOException, ClassNotFoundException {
 s.defaultReadObject();
 a
 = KEY_GENERIC_ARRAY_CAST new KEY_TYPE[size];
 for(int i = 0; i < size; i++) a[i] = KEY_GENERIC_CAST s.READ_KEY();
}

#ifdef TEST

private static long seed = System.currentTimeMillis();
private static java.util.Random r = new java.util.Random(seed);

private static KEY_TYPE genKey() {
 #if #keyclass(Byte) || #keyclass(Short) || #keyclass(Character)
 return (KEY_TYPE)(r.nextInt());
 #elif #keys(primitive)
 return r.NEXT_KEY();
 #elif #keyclass(Object)
 return Integer.toBinaryString(r.nextInt());
 #else
 return new java.io.Serializable() {};
 #endif
}

private static java.text.NumberFormat format = new java.text.DecimalFormat("#,###.00");
private static java.text.FieldPosition p = new java.text.FieldPosition(0);

private static String format(double d) {
 StringBuffer s = new StringBuffer();
 return format.format(d, s, p).toString();
}

private static void speedTest(int n, boolean comp) {

```

```

System.out.println("There are presently no speed
tests for this class.");
}

private static void fatal(String msg) {
 System.out.println(msg);
 System.exit(1);
}

private static void ensure(boolean cond, String msg) {
 if (cond) return;
 fatal(msg);
}

private static Object[] k, v, nk;
private static KEY_TYPE kt[];
private static KEY_TYPE nkt[];
private static ARRAY_LIST topList;

protected static void testLists(LIST m, java.util.List t, int n, int level) {
 long ms;
 Exception mThrowsIllegal, tThrowsIllegal, mThrowsOutOfBounds, tThrowsOutOfBounds;
 Object rt = null;
 KEY_TYPE rm = KEY_NULL;

 if (level > 4) return;

 /* Now we check that both sets agree on random keys. For m we use the polymorphic method. */

 for(int i = 0; i < n; i++) {
 int p = r.nextInt() % (n * 2);

 KEY_TYPE T = genKey();
 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.set(p, T);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 try {
 t.set(p, KEY2OBJ(
T));
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):

```

```

set() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")";
 if (mThrowsOutOfBounds == null) ensure(t.get(p).equals(KEY2OBJ(m.GET_KEY(p))), "Error (" + level +
", " + seed + "): m and t differ after set() on position " + p + " (" + m.GET_KEY(p) + ", " + t.get(p) + ")");

 p = r.nextInt() % (n * 2);
 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.GET_KEY(p);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 try {
 t.get(p);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
get() divergence at
start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
 if (mThrowsOutOfBounds == null) ensure(t.get(p).equals(KEY2OBJ(m.GET_KEY(p))), "Error (" + level +
", " + seed + "): m and t differ aftr get() on position " + p + " (" + m.GET_KEY(p) + ", " + t.get(p) + ")");

}

/* Now we check that both sets agree on random keys. For m we use the standard method. */

for(int i = 0; i < n; i++) {
 int p = r.nextInt() % (n * 2);

 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.get(p);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 try {
 t.get(p);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
get() divergence at start in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", "
+ tThrowsOutOfBounds + ")");
 if (mThrowsOutOfBounds == null) ensure(t.get(p).equals(m.get(p)), "Error (" + level + ", " + seed + "): m and
t differ at start on position " + p + " (" + m.get(p) + ", " + t.get(p) + ")");

```

```

}

/* Now we check that m and t are equal. */
if (!m.equals(t) || ! t.equals(m)) System.err.println("m: " + m + " t: " + t);

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) at start");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) at start");

/* Now we check that m actually holds that data. */
for(Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after insertion (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */
for(Iterator i=m.listIterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level +
", " + seed + "): m and t differ on an entry after insertion (iterating on m)");
}

/* Now we check that inquiries about random data give the same answer in m and t. For
m we use the polymorphic method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 ensure(m.contains(T) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in content
between t and m (polymorphic method)");
}

/* Again, we check that inquiries about random data give the same answer in m and t, but
for m we use the standard method. */

for(int i=0; i<n; i++) {
 KEY_TYPE T = genKey();
 ensure(m.contains(KEY2OBJ(T)) == t.contains(KEY2OBJ(T)), "Error (" + level + ", " + seed + "): divergence in
content between t and m (polymorphic method)");
}

/* Now we add and remove random data in m and t, checking that the result is the same. */

for(int i=0; i<2*n; i++) {
 KEY_TYPE T = genKey();

 try {
 m.add(T);
 }
}

```

```

catch (IndexOutOfBoundsException
e) { mThrowsOutOfBounds = e; }

try {
t.add(KEY2OBJ(T));
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

T = genKey();
int p = r.nextInt() % (2 * n + 1);

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
m.add(p, T);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

try {
t.add(p, KEY2OBJ(T));
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
add() divergence in IndexOutOfBoundsException for index " + p + " for " + T + " (" + mThrowsOutOfBounds + ", "
+ tThrowsOutOfBounds + ")");

p = r.nextInt() % (2 * n + 1);

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
rm = m.REMOVE_KEY(p);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

try {
rt = t.remove(p);
}
catch (IndexOutOfBoundsException
e) { tThrowsOutOfBounds = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
remove() divergence in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
if (mThrowsOutOfBounds == null) ensure(rt.equals(KEY2OBJ(rm)), "Error (" + level + ", " + seed + "):

```

```

divergence in remove() between t and m (" + rt + ", " + rm + " ");
}

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after add/remove");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after add/remove");

/* Now we add random data in m and t using addAll on a collection, checking that the result is the same. */

for(int i=0; i<n; i++) {
 int p = r.nextInt() % (2 * n + 1);
 Collection m1 = new java.util.ArrayList();
 int s = r.nextInt(n / 2 + 1);
 for(int j = 0; j < s; j++) m1.add(KEY2OBJ(genKey()));

 mThrowsOutOfBounds
= tThrowsOutOfBounds = null;

 try {
 m.addAll(p, m1);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

 try {
 t.addAll(p, m1);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" + mThrowsOutOfBounds
+ ", " + tThrowsOutOfBounds + " ");

 ensure(m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals(t) after addAll");
 ensure(t.equals(m), "Error (" + level + ", " + seed + m + t + "): ! t.equals(m) after addAll");
}

if (m.size() > n) {
 m.size(n);
 while(t.size() != n) t.remove(t.size() -1);
}

/* Now we add random data in m and t using addAll on a type-specific collection, checking that the result is the
same. */

for(int i=0; i<n; i++) {
 int p = r.nextInt() % (2
* n + 1);
 COLLECTION m1 = new ARRAY_LIST();
 Collection t1 = new java.util.ArrayList();

```

```

int s = r.nextInt(n / 2 + 1);
for(int j = 0; j < s; j++) {
 KEY_TYPE x = genKey();
 m1.add(x);
 t1.add(KEY2OBJ(x));
}

mThrowsOutOfBounds = tThrowsOutOfBounds = null;

try {
 m.addAll(p, m1);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

try {
 t.addAll(p, t1);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
polymorphic addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" +
mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");

ensure(m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals(t) after polymorphic addAll");
ensure(t.equals(m), "Error (" + level + ", " + seed + m + t + "): ! t.equals(m) after polymorphic addAll"
);
}

if (m.size() > n) {
 m.size(n);
 while(t.size() != n) t.remove(t.size() -1);
}

/* Now we add random data in m and t using addAll on a list, checking that the result is the same. */

for(int i=0; i<n; i++) {
 int p = r.nextInt() % (2 * n + 1);
 LIST m1 = new ARRAY_LIST();
 Collection t1 = new java.util.ArrayList();
 int s = r.nextInt(n / 2 + 1);
 for(int j = 0; j < s; j++) {
 KEY_TYPE x = genKey();
 m1.add(x);
 t1.add(KEY2OBJ(x));
 }

 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

```



```

try {
 m.addAll(p, m1);
}
catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

try {
 t.addAll(p, t1);
}
catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
list addAll() divergence in IndexOutOfBoundsException for index " + p + " for " + m1 + " (" +
mThrowsOutOfBounds +
", " + tThrowsOutOfBounds + ")");

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after list addAll");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after list addAll");
}

/* Now we add random data in m and t using addElements, checking that the result is the same. */

for(int i=0; i<n; i++) {
 int p = r.nextInt() % (2 * n + 1);
 Collection t1 = new java.util.ArrayList();
 int s = r.nextInt(n / 2 + 1);
 KEY_TYPE a[] = new KEY_TYPE [s];
 for(int j = 0; j < s; j++) {
 KEY_TYPE x = genKey();
 t1.add(KEY2OBJ(x));
 a[j] = x;
 }

 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.addElements(p, a);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }

 try {
 t.addAll(p, t1);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level
+ ", " + seed + "): list addElements() divergence in IndexOutOfBoundsException for index " + p + " for " + t1 + " ("
+ mThrowsOutOfBounds + ", " + tThrowsOutOfBounds + ")");

```

```

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after list addElements");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after list addElements");
}

if (m.size() > n) {
 m.size(n);
 while(t.size() != n) t.remove(t.size() -1);
}

/* Now we check that m actually holds the same data. */

for(Iterator i=t.iterator(); i.hasNext();) {
 ensure(m.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating
on t)");
}

/* Now we check that m actually holds that data, but iterating on m. */

for(Iterator i=m.listIterator(); i.hasNext();) {
 ensure(t.contains(i.next()), "Error (" + level + ", " + seed + "): m and t differ on an entry after removal (iterating on
m)");
}

/* Now we check that both sets agree on random keys. For m we use the standard method. */

for(int i = 0; i < n; i++) {
 int p = r.nextInt() % (n * 2);

 mThrowsOutOfBounds = tThrowsOutOfBounds = null;

 try {
 m.get(p);
 }
 catch (IndexOutOfBoundsException e) { mThrowsOutOfBounds = e; }
 try {
 t.get(p);
 }
 catch (IndexOutOfBoundsException e) { tThrowsOutOfBounds = e; }

 ensure((mThrowsOutOfBounds == null) == (tThrowsOutOfBounds == null), "Error (" + level + ", " + seed + "):
get() divergence in IndexOutOfBoundsException for index " + p + " (" + mThrowsOutOfBounds + ", " +
tThrowsOutOfBounds + ")");
 if (mThrowsOutOfBounds == null) ensure(t.get(p).equals(m.get(p)), "Error (" + level + ", " + seed + "): m and
t differ on position " + p + " (" + m.get(p) + ", " + t.get(p) + ")");
}

/* Now we inquiry about the content with indexOf()/lastIndexOf(). */

```

```

for(int i=0; i<10*n; i++) {
 KEY_TYPE T
 = genKey();
 ensure(m.indexOf(KEY2OBJ(T)) == t.indexOf(KEY2OBJ(T)),
 "Error (" + level + ", " + seed + "): indexOf() divergence for " + T + " (" + m.indexOf(KEY2OBJ(T)) + ", " +
t.indexOf(KEY2OBJ(T)) + ")");
 ensure(m.lastIndexOf(KEY2OBJ(T)) == t.lastIndexOf(KEY2OBJ(T)),
 "Error (" + level + ", " + seed + "): lastIndexOf() divergence for " + T + " (" + m.lastIndexOf(KEY2OBJ(T)) + ",
" + t.lastIndexOf(KEY2OBJ(T)) + ")");
 ensure(m.indexOf(T) == t.indexOf(KEY2OBJ(T)),
 "Error (" + level + ", " + seed + "): polymorphic indexOf() divergence for " + T + " (" + m.indexOf(T) + ", " +
t.indexOf(KEY2OBJ(T)) + ")");
 ensure(m.lastIndexOf(T) == t.lastIndexOf(KEY2OBJ(T)),
 "Error (" + level + ", " + seed + "): polymorphic lastIndexOf() divergence for " + T + " (" + m.lastIndexOf(T) + ",
" + t.lastIndexOf(KEY2OBJ(T)) + ")");
}

/* Now we check cloning. */

if (level == 0) {
 ensure(m.equals(((ARRAY_LIST)m).clone()
), "Error (" + level + ", " + seed + "): m does not equal m.clone()");
 ensure(((ARRAY_LIST)m).clone().equals(m), "Error (" + level + ", " + seed + "): m.clone() does not equal m");
}

/* Now we play with constructors. */
ensure(m.equals(new ARRAY_LIST((Collection)m)), "Error (" + level + ", " + seed + "): m does not equal new (
Collection m)");
ensure((new ARRAY_LIST((Collection)m)).equals(m), "Error (" + level + ", " + seed + "): new (Collection m
)does not equal m");
ensure(m.equals(new ARRAY_LIST((COLLECTION)m)), "Error (" + level + ", " + seed + "): m does not equal
new (type-specific Collection m)");
ensure((new ARRAY_LIST((COLLECTION)m)).equals(m), "Error (" + level + ", " + seed + "): new (type-
specific Collection m) does not equal m");
ensure(m.equals(new ARRAY_LIST((LIST)m)), "Error (" + level + ", " + seed + "): m does not equal new (
type-specific List m)");
ensure((new ARRAY_LIST((LIST)m
)).equals(m), "Error (" + level + ", " + seed + "): new (type-specific List m) does not equal m");
ensure(m.equals(new ARRAY_LIST(m.listIterator())), "Error (" + level + ", " + seed + "): m does not equal new
(m.listIterator())");
ensure((new ARRAY_LIST(m.listIterator())).equals(m), "Error (" + level + ", " + seed + "): new (
m.listIterator()) does not equal m");
ensure(m.equals(new ARRAY_LIST(m.iterator())), "Error (" + level + ", " + seed + "): m does not equal new (
m.type_specific_iterator())");
ensure((new ARRAY_LIST(m.iterator())).equals(m), "Error (" + level + ", " + seed + "): new (
m.type_specific_iterator()) does not equal m");

```

```

/* Now we play with conversion to array, wrapping and copying. */
ensure(m.equals(new ARRAY_LIST(m.TO_KEY_ARRAY())), "Error (" + level + ", " + seed + "): m does not
equal new (toArray(m))");
ensure((new ARRAY_LIST(m.TO_KEY_ARRAY())).equals(m), "Error (" + level + ", " + seed + "):
new (toArray(m)) does not equal m");
ensure(m.equals(wrap(m.TO_KEY_ARRAY())), "Error (" + level + ", " + seed + "): m does not equal wrap (
toArray(m))");
ensure((wrap(m.TO_KEY_ARRAY())).equals(m), "Error (" + level + ", " + seed + "): wrap (toArray(m))
does not equal m");

```

```
int h = m.hashCode();
```

```
/* Now we save and read m. */
```

```
LIST m2 = null;
```

```
try {
java.io.File ff = new java.io.File("it.unimi.dsi.fastutil.test");
java.io.OutputStream os = new java.io.FileOutputStream(ff);
java.io.ObjectOutputStream oos = new java.io.ObjectOutputStream(os);

```

```
oos.writeObject(m);
oos.close();

```

```
java.io.InputStream is = new java.io.FileInputStream(ff);
java.io.ObjectInputStream ois = new java.io.ObjectInputStream(is);

```

```
m2 = (LIST)ois.readObject();
ois.close();
ff.delete();
}
catch(Exception e) {
e.printStackTrace();
System.exit(1);
}

```

```
#if ! #keyclass(Reference)
```

```
ensure(m2.hashCode() == h, "Error (" + level
+ ", " + seed + "): hashCode() changed after save/read");

```

```
/* Now we check that m2 actually holds that data. */
```

```
ensure(m2.equals(t), "Error (" + level + ", " + seed + "): ! m2.equals(t) after save/read");
ensure(t.equals(m2), "Error (" + level + ", " + seed + "): ! t.equals(m2) after save/read");
/* Now we take out of m everything, and check that it is empty. */

```

```
for(Iterator i=t.iterator(); i.hasNext();) m2.remove(i.next());

```

```

ensure(m2.isEmpty(), "Error (" + level + ", " + seed + "): m2 is not empty (as it should be)");
#endif

/* Now we play with iterators. */

{
KEY_LIST_ITERATOR i;
java.util.ListIterator j;
Object J;
i = m.listIterator();
j = t.listIterator();

for(int k = 0; k < 2*n; k++) {
ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext()");
ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious()");

if
(r.nextFloat() < .8 && i.hasNext()) {
ensure(i.next().equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next()");

if (r.nextFloat() < 0.2) {
i.remove();
j.remove();
}
else if (r.nextFloat() < 0.2) {
KEY_TYPE T = genKey();
i.set(T);
j.set(KEY2OBJ(T));
}
else if (r.nextFloat() < 0.2) {
KEY_TYPE T = genKey();
i.add(T);
j.add(KEY2OBJ(T));
}
}
else if (r.nextFloat() < .2 && i.hasPrevious()) {
ensure(i.previous().equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence in previous()");

if (r.nextFloat() < 0.2) {
i.remove();
j.remove();
}
else if (r.nextFloat() < 0.2) {
KEY_TYPE T = genKey();
i.set(T);
j.set(KEY2OBJ(T));
}
}
}
}

```

```

else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.add(T);
 j.add(KEY2OBJ(T));
}
}

ensure(i.nextIndex()
== j.nextIndex(), "Error (" + level + ", " + seed + "): divergence in nextIndex()");
ensure(i.previousIndex() == j.previousIndex(), "Error (" + level + ", " + seed + "): divergence in previousIndex()");

}

}

{
Object previous = null;
Object I, J;
int from = r.nextInt(m.size() +1);
KEY_LIST_ITERATOR i;
java.util.ListIterator j;
i = m.listIterator(from);
j = t.listIterator(from);

for(int k = 0; k < 2*n; k++) {
 ensure(i.hasNext() == j.hasNext(), "Error (" + level + ", " + seed + "): divergence in hasNext() (iterator with starting
point " + from + ")");
 ensure(i.hasPrevious() == j.hasPrevious(), "Error (" + level + ", " + seed + "): divergence in hasPrevious() (iterator
with starting point " + from + ")");

 if (r.nextFloat() < .8 && i.hasNext()) {
 ensure((I = i.next()).equals(J = j.next()), "Error (" + level + ", " + seed + "): divergence in next() (" + I + ", " + J +
", iterator with starting point
" + from + ")");
 //System.err.println("Done next " + I + " " + J + " " + badPrevious);

 }

 if (r.nextFloat() < 0.2) {
 //System.err.println("Removing in next");
 i.remove();
 j.remove();
 }
 else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.set(T);
 j.set(KEY2OBJ(T));
 }
 else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();

```

```

 i.add(T);
 j.add(KEY2OBJ(T));
}
}
else if (r.nextFloat() < .2 && i.hasPrevious()) {
 ensure((I = i.previous()).equals(J = j.previous()), "Error (" + level + ", " + seed + "): divergence in previous() (" +
I + ", " + J + ", iterator with starting point " + from + ")");

 if (r.nextFloat() < 0.2) {
 //System.err.println("Removing in prev");
 i.remove();
 j.remove();
 }
 else if (r.nextFloat() < 0.2) {
 KEY_TYPE T = genKey();
 i.set(T);
 j.set(KEY2OBJ(T));
 }
 else if (r.nextFloat()
< 0.2) {
 KEY_TYPE T = genKey();
 i.add(T);
 j.add(KEY2OBJ(T));
 }
}
}

/* Now we check that m actually holds that data. */

ensure(m.equals(t), "Error (" + level + ", " + seed + "): ! m.equals(t) after iteration");
ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after iteration");

/* Now we select a pair of keys and create a subset. */

if (! m.isEmpty()) {
 int start = r.nextInt(m.size());
 int end = start + r.nextInt(m.size() - start);
 //System.err.println("Checking subList from " + start + " to " + end + " (level=" + (level+1) + ")...");
 testLists(m.subList(start, end), t.subList(start, end), n, level + 1);

 ensure(m.equals(t), "Error (" + level + ", " + seed + m + t + "): ! m.equals(t) after subList");
 ensure(t.equals(m), "Error (" + level + ", " + seed + "): ! t.equals(m) after subList");

}

m.clear();

```

```

t.clear();
ensure(m.isEmpty(), "Error (" + level
+ ", " + seed + "): m is not empty after clear());
}

protected static void test(int n) {
 ARRAY_LIST m = new ARRAY_LIST();
 java.util.ArrayList t = new java.util.ArrayList();
 topList = m;
 k = new Object[n];
 nk = new Object[n];
 kt = new KEY_TYPE[n];
 nkt = new KEY_TYPE[n];

 for(int i = 0; i < n; i++) {
#if #keys(reference)
 k[i] = kt[i] = genKey();
 nk[i] = nkt[i] = genKey();
#else
 k[i] = new KEY_CLASS(kt[i] = genKey());
 nk[i] = new KEY_CLASS(nkt[i] = genKey());
#endif
 }

 /* We add pairs to t. */
 for(int i = 0; i < n; i++) t.add(k[i]);

 /* We add to m the same data */
 m.addAll(t);

 testLists(m, t, n, 0);

 System.out.println("Test OK");
 return;
}

public static void main(String args[]) {
 int n = Integer.parseInt(args[1]);
 if (args.length > 2) r = new java.util.Random(seed = Long.parseLong(args[2]));

 try {
 if ("speedTest".equals(args[0]) || "speedComp".equals(args[0])) speedTest(n, "speedComp".equals(args[0])
);
 else if ("test".equals(args[0])) test(n);
 } catch(Throwable e) {

```



```
e.printStackTrace(System.err);
System.err.println("seed: " + seed);
}
}
```

#endif

}

Found in path(s):

\* /opt/cola/permits/1553691039\_1675463911.8727324/0/fastutil-7-0-10-sources-1-jar/drv/ArrayList.drv

# 1.1039 hashicorp-go-cleanhttp 0.5.2

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Found in path(s):

```
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/ThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/NotThreadSafe.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/Immutable.java
* /opt/cola/permits/1656638364_1682593601.2844107/0/jsr305-3-0-2-sources-9-
jar/javax/annotation/concurrent/GuardedBy.java
```

# 1.1046 servlet-api 3.0.1

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```

Found in path(s):

```
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/context/ContextLoader.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/util/pattern/PathPatternParser.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/cors/CorsUtils.java
*
/opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/http/converter/json/Jackson2ObjectMapperBuilder.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
```

```
jar/org/springframework/web/method/HandlerMethod.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/cors/reactive/CorsUtils.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/http/client/reactive/Jetty10HttpFieldsHelper.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/http/client/reactive/HttpComponentsClientHttpConnector.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/context/support/ServletContextResource.java
*
/opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/client/RestTemplate.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/http/client/reactive/JettyClientHttpRequest.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/http/client/reactive/JettyClientHttpResponse.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/http/client/reactive/HttpComponentsHeadersAdapter.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/util/pattern/PathPattern.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/util/pattern/PathElement.java
*
/opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/util/pattern/LiteralPathElement.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/web/util/pattern/SeparatorPathElement.java
* /opt/cola/permits/1749322174_1689879503.3822799/0/spring-web-5-3-29-sources-
jar/org/springframework/http/codec/protobuf/ProtobufDecoder.java
No license file was found, but licenses were detected in source scan.
```

```
/*
* Copyright 2002-2010 the original author or authors.
*
* Licensed under the Apache License, Version 2.0 (the "License");
* you may not use this file except in compliance with the License.
* You may obtain a copy of the License at
*
* https://www.apache.org/licenses/LICENSE-2.0
*
* Unless required by applicable law or agreed to in writing, software
* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
```

Found in path(s):

\* /opt/cola/permits/1749322174\_1689879503.3822799/0/spring-web-5-3-29-sources-jar/org/springframework/web/context/support/ServletContextResourceLoader.java

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

```
This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems
and has been placed in the public domain for unlimited redistribution.
#
The table below contains both registered and (common) unregistered types.
A type that has no unique extension can be ignored -- they are listed
here to guide configurations toward known types and to make it easier to
identify "new" types. File extensions are also commonly used to indicate
content languages and encodings, so choose them carefully.
#
Internet media types should be registered as described in RFC 4288.
The registry is at <https://www.iana.org/assignments/media-types/>.
#
This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1752884&view=co
#
MIME type (lowercased) Extensions
=====
#
application/1d-interleaved-parityfec
application/3gpdash-qoe-report+xml
application/3gpp-ims+xml
application/a2l
application/activemessage
application/alto-costmap+json
application/alto-costmapfilter+json
application/alto-directory+json
application/alto-endpointcost+json
application/alto-endpointcostparams+json
application/alto-endpointprop+json
application/alto-endpointpropparams+json
application/alto-error+json
application/alto-networkmap+json
application/alto-networkmapfilter+json
application/aml
application/andrew-inset ez
application/applefile
application/applixware aw
application/atf
application/atfx
application/atom+xml atom
application/atomcat+xml atomcat
```

# application/atomdeleted+xml  
# application/atomicmail  
application/atomsvc+xml atomsvc  
# application/atxml  
# application/auth-policy+xml  
# application/bacnet-xdd+zip  
# application/batch-smtp  
# application/beep+xml  
# application/calendar+json  
# application/calendar+xml  
#  
application/call-completion  
# application/cals-1840  
# application/cbor  
# application/ccmp+xml  
application/ccxml+xml ccxml  
# application/cdfx+xml  
application/cdmi-capability cdmia  
application/cdmi-container cdmic  
application/cdmi-domain cdmid  
application/cdmi-object cdmio  
application/cdmi-queue cdmiq  
# application/cdni  
# application/cea  
# application/cea-2018+xml  
# application/cellml+xml  
# application/cfw  
# application/cms  
# application/cnrx+xml  
# application/coap-group+json  
# application/commonground  
# application/conference-info+xml  
# application/cpl+xml  
# application/csrattrs  
# application/csta+xml  
# application/cstadata+xml  
# application/csvm+json  
application/cu-seeme cu  
# application/cybercash  
# application/dash+xml  
# application/dashdelta  
application/davmount+xml davmount  
# application/dca-rft  
# application/dcd  
# application/dec-dx  
# application/dialog-info+xml  
# application/dicom  
# application/dii

# application/dit  
# application/dns  
application/docbook+xml dbk  
#  
application/dskpp+xml  
application/dssc+der dssc  
application/dssc+xml xdssc  
# application/dvcs  
application/ecmascript ecma  
# application/edi-consent  
# application/edi-x12  
# application/edifact  
# application/efi  
# application/emergencycalldata.comment+xml  
# application/emergencycalldata.deviceinfo+xml  
# application/emergencycalldata.providerinfo+xml  
# application/emergencycalldata.serviceinfo+xml  
# application/emergencycalldata.subscriberinfo+xml  
application/emma+xml emma  
# application/emotionml+xml  
# application/encaprtp  
# application/epp+xml  
application/epub+zip epub  
# application/eshop  
# application/example  
application/exi exi  
# application/fastinfoset  
# application/fastsoap  
# application/fdt+xml  
# application/fits  
# application/font-sfnt  
application/font-tdpfr pfr  
application/font-woff woff  
# application/framework-attributes+xml  
# application/geo+json  
application/gml+xml gml  
application/gpx+xml gpx  
application/gxf gxf  
# application/gzip  
#  
application/h224  
# application/held+xml  
# application/http  
application/hyperstudio stk  
# application/ibe-key-request+xml  
# application/ibe-pkg-reply+xml  
# application/ibe-pp-data  
# application/iges

# application/im-iscomposing+xml  
# application/index  
# application/index.cmd  
# application/index.obj  
# application/index.response  
# application/index.vnd  
application/inkml+xml ink inkml  
# application/iotp  
application/ipfix ipfix  
# application/ipp  
# application/isup  
# application/its+xml  
application/java-archive jar  
application/java-serialized-object ser  
application/java-vm class  
application/javascript js  
# application/jose  
# application/jose+json  
# application/jrd+json  
application/json json  
# application/json-patch+json  
# application/json-seq  
application/jsonml+json jsonml  
# application/jwk+json  
# application/jwk-set+json  
# application/jwt  
# application/kpml-request+xml  
# application/kpml-response+xml  
# application/ld+json  
# application/lgr+xml  
# application/link-format  
#  
application/load-control+xml  
application/lost+xml lostxml  
# application/lostsync+xml  
# application/lxf  
application/mac-binhex40 hqx  
application/mac-compactpro cpt  
# application/macwriteii  
application/mads+xml mads  
application/marc mrc  
application/marcxml+xml mrcx  
application/mathematica ma nb mb  
application/mathml+xml mathml  
# application/mathml-content+xml  
# application/mathml-presentation+xml  
# application/mbms-associated-procedure-description+xml  
# application/mbms-deregister+xml

# application/mbms-envelope+xml  
# application/mbms-msk+xml  
# application/mbms-msk-response+xml  
# application/mbms-protection-description+xml  
# application/mbms-reception-report+xml  
# application/mbms-register+xml  
# application/mbms-register-response+xml  
# application/mbms-schedule+xml  
# application/mbms-user-service-description+xml  
application/mbox mbox  
# application/media-policy-dataset+xml  
# application/media\_control+xml  
application/mediaservercontrol+xml mscml  
# application/merge-patch+json  
application/metalink+xml metalink  
application/metalink4+xml meta4  
application/mets+xml mets  
#  
application/mf4  
# application/mikey  
application/mods+xml mods  
# application/moss-keys  
# application/moss-signature  
# application/mosskey-data  
# application/mosskey-request  
application/mp21 m21 mp21  
application/mp4 mp4s  
# application/mpeg4-generic  
# application/mpeg4-iod  
# application/mpeg4-iod-xmt  
# application/mrb-consumer+xml  
# application/mrb-publish+xml  
# application/msc-ivr+xml  
# application/msc-mixer+xml  
application/msword doc dot  
application/mxf mxf  
# application/nasdata  
# application/news-checkgroups  
# application/news-groupinfo  
# application/news-transmission  
# application/nlsml+xml  
# application/nss  
# application/ocsp-request  
# application/ocsp-response  
application/octet-stream bin dms lrf mar so dist distz pkg bpk dump elc deploy  
application/oda oda  
# application/odx  
application/oebps-package+xml opf



application/ogg ogx  
application/omdoc+xml omdoc  
application/onenote onetoc  
onetoc2 onetmp onepkg  
application/oxps oxps  
# application/p2p-overlay+xml  
# application/parityfec  
application/patch-ops-error+xml xer  
application/pdf pdf  
# application/pdx  
application/pgp-encrypted pgp  
# application/pgp-keys  
application/pgp-signature asc sig  
application/pics-rules prf  
# application/pidf+xml  
# application/pidf-diff+xml  
application/pkcs10 p10  
# application/pkcs12  
application/pkcs7-mime p7m p7c  
application/pkcs7-signature p7s  
application/pkcs8 p8  
application/pkix-attr-cert ac  
application/pkix-cert cer  
application/pkix-crl crl  
application/pkix-pkipath pkipath  
application/pkixcmp pki  
application/pls+xml pls  
# application/poc-settings+xml  
application/postscript ai eps ps  
# application/ppsp-tracker+json  
# application/problem+json  
# application/problem+xml  
# application/provenance+xml  
# application/prs.alvestrand.titrax-sheet  
application/prs.cww cww  
# application/prs.hpub+zip  
#  
application/prs.nprend  
# application/prs.plucker  
# application/prs.rdf+xml-crypt  
# application/prs.xsf+xml  
application/pskc+xml pskcxml  
# application/qsig  
# application/raptorfec  
# application/rdap+json  
application/rdf+xml rdf  
application/reginfo+xml rif  
application/relax-ng-compact-syntax rnc

# application/remote-printing  
# application/reputon+json  
application/resource-lists+xml rl  
application/resource-lists-diff+xml rld  
# application/rfc+xml  
# application/riscos  
# application/rlmi+xml  
application/rls-services+xml rs  
application/rpki-ghostbusters gbr  
application/rpki-manifest mft  
application/rpki-roa roa  
# application/rpki-updown  
application/rsd+xml rsd  
application/rss+xml rss  
application/rtf rtf  
# application/rtploopback  
# application/rtx  
# application/samlassertion+xml  
# application/samlmetadata+xml  
application/sbml+xml sbml  
# application/scaip+xml  
# application/scim+json  
application/scvp-cv-request scq  
application/scvp-cv-response scs  
application/scvp-vp-request spq  
application/scvp-vp-response spp  
application/sdp sdp  
#  
application/sep+xml  
# application/sep-exi  
# application/session-info  
# application/set-payment  
application/set-payment-initiation setpay  
# application/set-registration  
application/set-registration-initiation setreg  
# application/sgml  
# application/sgml-open-catalog  
application/shf+xml shf  
# application/sieve  
# application/simple-filter+xml  
# application/simple-message-summary  
# application/simplesymbolcontainer  
# application/slate  
# application/smil  
application/smil+xml smi smil  
# application/smpte336m  
# application/soap+fastinfoset  
# application/soap+xml

application/sparql-query rq  
application/sparql-results+xml srx  
# application/spirits-event+xml  
# application/sql  
application/srgs gram  
application/srgs+xml grxml  
application/sru+xml sru  
application/ssdl+xml ssdl  
application/ssml+xml ssml  
# application/tamp-apex-update  
# application/tamp-apex-update-confirm  
# application/tamp-community-update  
#  
application/tamp-community-update-confirm  
# application/tamp-error  
# application/tamp-sequence-adjust  
# application/tamp-sequence-adjust-confirm  
# application/tamp-status-query  
# application/tamp-status-response  
# application/tamp-update  
# application/tamp-update-confirm  
application/tei+xml tei teicorpus  
application/thraud+xml tfi  
# application/timestamp-query  
# application/timestamp-reply  
application/timestamped-data tsd  
# application/ttml+xml  
# application/tve-trigger  
# application/ulpfec  
# application/urc-grpsheet+xml  
# application/urc-ressheet+xml  
# application/urc-targetdesc+xml  
# application/urc-uisocketdesc+xml  
# application/vcard+json  
# application/vcard+xml  
# application/vemmi  
# application/vividence.scriptfile  
# application/vnd.3gpp-prose+xml  
# application/vnd.3gpp-prose-pc3ch+xml  
# application/vnd.3gpp.access-transfer-events+xml  
# application/vnd.3gpp.bsf+xml  
# application/vnd.3gpp.mid-call+xml  
application/vnd.3gpp.pic-bw-large plb  
application/vnd.3gpp.pic-bw-small psb  
application/vnd.3gpp.pic-bw-var pvb  
#  
application/vnd.3gpp.sms  
# application/vnd.3gpp.sms+xml

# application/vnd.3gpp.srvcc-ext+xml  
# application/vnd.3gpp.srvcc-info+xml  
# application/vnd.3gpp.state-and-event-info+xml  
# application/vnd.3gpp.ussd+xml  
# application/vnd.3gpp2.bcmcsinfo+xml  
# application/vnd.3gpp2.sms  
application/vnd.3gpp2.tcap tcap  
# application/vnd.3lightssoftware.imagescal  
application/vnd.3m.post-it-notes pwn  
application/vnd.accpac.simply.aso aso  
application/vnd.accpac.simply.imp imp  
application/vnd.acucobol acu  
application/vnd.acucorp atc acute  
application/vnd.adobe.air-application-installer-package+zip air  
# application/vnd.adobe.flash.movie  
application/vnd.adobe.formscentral.fcdt fcdt  
application/vnd.adobe.fxp fxp fxpl  
# application/vnd.adobe.partial-upload  
application/vnd.adobe.xdp+xml xdp  
application/vnd.adobe.xfdf xfdf  
# application/vnd.aether.imp  
# application/vnd.ah-barcode  
application/vnd.ahead.space ahead  
application/vnd.airzip.filesecure.azf azf  
application/vnd.airzip.filesecure.azs azs  
application/vnd.amazon.ebook azw  
#  
application/vnd.amazon.mobi8-ebook  
application/vnd.americandynamics.acc acc  
application/vnd.amiga.ami ami  
# application/vnd.amundsen.maze+xml  
application/vnd.android.package-archive apk  
# application/vnd.anki  
application/vnd.anser-web-certificate-issue-initiation cii  
application/vnd.anser-web-funds-transfer-initiation fti  
application/vnd.antix.game-component atx  
# application/vnd.apache.thrift.binary  
# application/vnd.apache.thrift.compact  
# application/vnd.apache.thrift.json  
# application/vnd.api+json  
application/vnd.apple.installer+xml mpkg  
application/vnd.apple.mpegurl m3u8  
# application/vnd.arastra.swi  
application/vnd.aristanetworks.swi swi  
# application/vnd.artsquare  
application/vnd.astraea-software.iota iota  
application/vnd.audiograph aep  
# application/vnd.autopackage

```
application/vnd.avistar+xml
application/vnd.balsamiq.bmml+xml
application/vnd.balsamiq.bmpr
#
application/vnd.bekitzur-stech+json
application/vnd.biopax.rdf+xml
application/vnd.blueice.multipass mpm
application/vnd.bluetooth.ep.oob
application/vnd.bluetooth.le.oob
application/vnd.bmi bmi
application/vnd.businessobjects rep
application/vnd.cab-jscript
application/vnd.canon-cpdl
application/vnd.canon-lips
application/vnd.cendio.thinlinc.clientconf
application/vnd.century-systems.tcp_stream
application/vnd.chemdraw+xml cdxml
application/vnd.chess-pgn
application/vnd.chipnuts.karaoke-mmd mmd
application/vnd.cinderella cdy
application/vnd.cirpack.isdn-ext
application/vnd.citationstyles.style+xml
application/vnd.claymore cla
application/vnd.cloanto.rp9 rp9
application/vnd.clonk.c4group c4g c4d c4f c4p c4u
application/vnd.cluetrust.cartomobile-config c11amc
application/vnd.cluetrust.cartomobile-config-pkg c11amz
application/vnd.coffeescript
application/vnd.collection+json
application/vnd.collection.doc+json
application/vnd.collection.next+json
#
application/vnd.comicbook+zip
application/vnd.commerce-battelle
application/vnd.commonspace csp
application/vnd.contact.cmsg cdbcmg
application/vnd.coreos.ignition+json
application/vnd.cosmocaller cmc
application/vnd.crick.clicker clkx
application/vnd.crick.clicker.keyboard clkk
application/vnd.crick.clicker.palette clkp
application/vnd.crick.clicker.template clkt
application/vnd.crick.clicker.wordbank clkw
application/vnd.criticaltools.wbs+xml wbs
application/vnd.ctc-posml pml
application/vnd.ctct.ws+xml
application/vnd.cups-pdf
application/vnd.cups-postscript
```

application/vnd.cups-ppd ppd  
# application/vnd.cups-raster  
# application/vnd.cups-raw  
# application/vnd.curl  
application/vnd.curl.car car  
application/vnd.curl.pcurl pcurl  
# application/vnd.cyan.dean.root+xml  
# application/vnd.cybank  
application/vnd.dart dart  
application/vnd.data-vision.rdz rdz  
# application/vnd.debian.binary-package  
application/vnd.dece.data uvf uvvf  
uvd uvvd  
application/vnd.dece.ttml+xml uvt uvvt  
application/vnd.dece.unsigned uvx uvvx  
application/vnd.dece.zip uvz uvvz  
application/vnd.denovo.fcselayout-link fe\_launch  
# application/vnd.desmume.movie  
# application/vnd.dir-bi.plate-dl-nosuffix  
# application/vnd.dm.delegation+xml  
application/vnd.dna dna  
# application/vnd.document+json  
application/vnd.dolby.mlp mlp  
# application/vnd.dolby.mobile.1  
# application/vnd.dolby.mobile.2  
# application/vnd.doremir.scorecloud-binary-document  
application/vnd.dpgraph dpg  
application/vnd.dreamfactory dfac  
# application/vnd.drive+json  
application/vnd.ds-keypoint kpxx  
# application/vnd.dtg.local  
# application/vnd.dtg.local.flash  
# application/vnd.dtg.local.html  
application/vnd.dvb.ait ait  
# application/vnd.dvb.dvbj  
# application/vnd.dvb.esgcontainer  
# application/vnd.dvb.ipdcdfnotifaccess  
# application/vnd.dvb.ipdcesgaccess  
# application/vnd.dvb.ipdcesgaccess2  
# application/vnd.dvb.ipdcesgpdd  
# application/vnd.dvb.ipdcroaming  
#  
application/vnd.dvb.iptv.alfec-base  
# application/vnd.dvb.iptv.alfec-enhancement  
# application/vnd.dvb.notif-aggregate-root+xml  
# application/vnd.dvb.notif-container+xml  
# application/vnd.dvb.notif-generic+xml  
# application/vnd.dvb.notif-ia-msglist+xml

```
application/vnd.dvb.notif-ia-registration-request+xml
application/vnd.dvb.notif-ia-registration-response+xml
application/vnd.dvb.notif-init+xml
application/vnd.dvb.pfr
application/vnd.dvb.service svc
application/vnd.dxr
application/vnd.dynageo geo
application/vnd.dzr
application/vnd.easykaraoke.cdgdownload
application/vnd.ecdis-update
application/vnd.ecowin.chart mag
application/vnd.ecowin.filerequest
application/vnd.ecowin.fileupdate
application/vnd.ecowin.series
application/vnd.ecowin.seriesrequest
application/vnd.ecowin.seriesupdate
application/vnd.emclient.accessrequest+xml
application/vnd.enliven nml
application/vnd.enphase.envoy
application/vnd.eprints.data+xml
application/vnd.epson.esf esf
application/vnd.epson.msf msf
application/vnd.epson.quickanime qam
application/vnd.epson.salt slt
application/vnd.epson.ssf ssf
#
application/vnd.ericsson.quickcall
application/vnd.esigno3+xml es3 et3
application/vnd.etsi.aoc+xml
application/vnd.etsi.asic-e+zip
application/vnd.etsi.asic-s+zip
application/vnd.etsi.cug+xml
application/vnd.etsi.iptvcommand+xml
application/vnd.etsi.iptvdiscovery+xml
application/vnd.etsi.iptvprofile+xml
application/vnd.etsi.iptvsad-bc+xml
application/vnd.etsi.iptvsad-cod+xml
application/vnd.etsi.iptvsad-npvr+xml
application/vnd.etsi.iptvservice+xml
application/vnd.etsi.iptvsync+xml
application/vnd.etsi.iptvueprofile+xml
application/vnd.etsi.mcid+xml
application/vnd.etsi.mheg5
application/vnd.etsi.overload-control-policy-dataset+xml
application/vnd.etsi.pstn+xml
application/vnd.etsi.sci+xml
application/vnd.etsi.simservs+xml
application/vnd.etsi.timestamp-token
```

```
application/vnd.etsi.tsl+xml
application/vnd.etsi.tsl.der
#
 application/vnd.eudora.data
application/vnd.ezpix-album ez2
application/vnd.ezpix-package ez3
application/vnd.f-secure.mobile
application/vnd.fastcopy-disk-image
application/vnd.fdf fdf
application/vnd.fdsn.mseed mseed
application/vnd.fdsn.seed seed dataless
application/vnd.ffsns
application/vnd.filmit.zfc
application/vnd.fints
application/vnd.firemonkeys.cloudcell
application/vnd.flographit gph
application/vnd.fluxtime.clip ftc
application/vnd.font-fontforge-sfd
application/vnd.frameMaker fm frame maker book
application/vnd.frogans.fnc fnc
application/vnd.frogans.ltf ltf
application/vnd.fsc.weblaunch fsc
application/vnd.fujitsu.oasys oas
application/vnd.fujitsu.oasys2 oa2
application/vnd.fujitsu.oasys3 oa3
application/vnd.fujitsu.oasysgp fg5
application/vnd.fujitsu.oasysprs bh2
application/vnd.fujixerox.art-ex
application/vnd.fujixerox.art4
application/vnd.fujixerox.ddd ddd
application/vnd.fujixerox.docuworks xdw
application/vnd.fujixerox.docuworks.binder xbd
#
 application/vnd.fujixerox.docuworks.container
application/vnd.fujixerox.hbpl
application/vnd.fut-misnet
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application/vnd.gerber
application/vnd.globalplatform.card-content-mgt
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application/vnd.gov.sk.e-form+zip
application/vnd.gov.sk.xmldatacontainer+xml
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application/vnd.groove-injector grv
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# application/vnd.ims.lti.v2.toolproxy+json  
# application/vnd.ims.lti.v2.toolproxy.id+json  
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# application/vnd.infotech.project  
# application/vnd.infotech.project+xml  
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application/vnd.intergeo i2g  
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# application/vnd.intertrust.nncp  
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# application/vnd.iptc.g2.packageitem+xml  
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# application/vnd.meridian-slideshow  
application/vnd.mfer mwf  
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# application/vnd.micro+json  
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# application/vnd.music-niff  
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# application/vnd.nokia.isds-radio-presets  
# application/vnd.nokia.landmark+wbxml  
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# application/vnd.nokia.landmarkcollection+xml  
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application/vnd.ntt-local.sip-ta_tcp_stream
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application/vnd.oasis.opendocument.chart-template otc
application/vnd.oasis.opendocument.database odb
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twds  
# application/vnd.siren+json  
application/vnd.smaf mmf  
# application/vnd.smart.notebook  
application/vnd.smart.teacher teacher  
# application/vnd.software602.filler.form+xml  
# application/vnd.software602.filler.form-xml-zip  
application/vnd.solent.sdkm+xml sdkm sdkd  
application/vnd.spotfire.dxp dxp  
application/vnd.spotfire.sfs sfs  
# application/vnd.sss-cod  
# application/vnd.sss-dtf  
# application/vnd.sss-ntf  
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application/vnd.stardivision.draw sda  
application/vnd.stardivision.impress sdd  
application/vnd.stardivision.math smf  
application/vnd.stardivision.writer sdw vor  
application/vnd.stardivision.writer-global sgl

application/vnd.stepmania.package smzip  
application/vnd.stepmania.stepchart sm  
# application/vnd.street-stream  
# application/vnd.sun.wadl+xml  
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application/vnd.sun.xml.calc.template stc  
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application/vnd.sun.xml.impress.template sti  
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application/vnd.sun.xml.writer sxw  
application/vnd.sun.xml.writer.global sxg  
application/vnd.sun.xml.writer.template stw  
application/vnd.sus-calendar sus  
susp  
application/vnd.svd svd  
# application/vnd.swiftview-ics  
application/vnd.symbian.install sis six  
application/vnd.syncml+xml xsm  
application/vnd.syncml.dm+wbxml bdm  
application/vnd.syncml.dm+xml xdm  
# application/vnd.syncml.dm.notification  
# application/vnd.syncml.dmddf+wbxml  
# application/vnd.syncml.dmddf+xml  
# application/vnd.syncml.dmtnds+wbxml  
# application/vnd.syncml.dmtnds+xml  
# application/vnd.syncml.ds.notification  
application/vnd.tao.intent-module-archive tao  
application/vnd.tcpdump.pcap pcap cap dmp  
# application/vnd.tmd.mediaflex.api+xml  
# application/vnd.tml  
application/vnd.tmobile-livetv tmo  
application/vnd.trid.tpt tpt  
application/vnd.triscape.mxs mxs  
application/vnd.trueapp tra  
#  
application/vnd.truedoc  
# application/vnd.ubisoft.webplayer  
application/vnd.ufdl ufd ufdl  
application/vnd.uiq.theme utz  
application/vnd.umajin umj  
application/vnd.unity unityweb  
application/vnd.uoml+xml uoml  
# application/vnd.uplanet.alert  
# application/vnd.uplanet.alert-wbxml  
# application/vnd.uplanet.bearer-choice  
# application/vnd.uplanet.bearer-choice-wbxml

```
application/vnd.uplanet.cacheop
application/vnd.uplanet.cacheop-wbxml
application/vnd.uplanet.channel
application/vnd.uplanet.channel-wbxml
application/vnd.uplanet.list
application/vnd.uplanet.list-wbxml
application/vnd.uplanet.listcmd
application/vnd.uplanet.listcmd-wbxml
application/vnd.uplanet.signal
application/vnd.uri-map
application/vnd.valve.source.material
application/vnd.vcx vcx
application/vnd.vd-study
application/vnd.vectorworks
application/vnd.vel+json
#
application/vnd.verimatrix.vcas
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application/vnd.wap.slc
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application/vnd.webturbo wtb
application/vnd.wfa.p2p
application/vnd.wfa.wsc
application/vnd.windows.devicepairing
application/vnd.wmc
application/vnd.wmf.bootstrap
application/vnd.wolfram.mathematica
application/vnd.wolfram.mathematica.package
application/vnd.wolfram.player nbp
application/vnd.wordperfect wpd
application/vnd.wqd wqd
application/vnd.wrq-hp3000-labelled
application/vnd.wt.stf stf
application/vnd.wv.csp+wbxml
application/vnd.wv.csp+xml
application/vnd.wv.ssp+xml
application/vnd.xacml+json
application/vnd.xara xar
application/vnd.xfdl xfdl
application/vnd.xfdl.webform
#
```

application/vnd.xmi+xml  
# application/vnd.xmpie.cpkg  
# application/vnd.xmpie.dpkg  
# application/vnd.xmpie.plan  
# application/vnd.xmpie.ppkg  
# application/vnd.xmpie.xlim  
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application/vnd.yamaha.hv-script hvs  
application/vnd.yamaha.hv-voice hvp  
application/vnd.yamaha.openscoreformat osf  
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# application/vnd.yamaha.remote-setup  
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application/vnd.yamaha.smaf-phrase spf  
# application/vnd.yamaha.through-ngn  
# application/vnd.yamaha.tunnel-udpencap  
# application/vnd.yaoweme  
application/vnd.yellowriver-custom-menu cmp  
application/vnd.zul zir zirz  
application/vnd.zzazz.deck+xml zaz  
application/voicexml+xml vxml  
# application/vq-rtcpxr  
# application/watcherinfo+xml  
# application/whoispp-query  
# application/whoispp-response  
application/widget wgt  
application/winhelp hlp  
# application/wita  
# application/wordperfect5.1  
application/wsdl+xml wsdl  
application/wspolicy+xml wspolicy  
application/x-7z-compressed 7z  
application/x-abiword abw  
application/x-ace-compressed ace  
#  
application/x-amf  
application/x-apple-diskimage dmg  
application/x-authorware-bin aab x32 u32 vox  
application/x-authorware-map aam  
application/x-authorware-seg aas  
application/x-bcpio bcpio  
application/x-bittorrent torrent  
application/x-blorb blb blorb  
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application/x-bzip2 bz2 boz  
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application/x-cdlink vcd  
application/x-cfs-compressed cfs

application/x-chat chat  
application/x-chess-pgn pgn  
# application/x-compress  
application/x-conference nsc  
application/x-cpio cpio  
application/x-csh csh  
application/x-debian-package deb udeb  
application/x-dgc-compressed dgc  
application/x-director dir dcr dxr cst cct cxt w3d fgd swa  
application/x-doom wad  
application/x-dtbncx+xml ncx  
application/x-dtbook+xml dtb  
application/x-dtbresource+xml res  
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application/x-eva eva  
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application/x-font-pcf pcf  
application/x-font-snf snf  
# application/x-font-speedo  
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application/x-futuresplash spl  
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application/x-glulx ulx  
application/x-gnumeric gnumeric  
application/x-gramps+xml gramps  
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mobi  
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application/x-pkcs7-certreqresp p7r  
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application/x-stuffitx sitx  
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texi  
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application/x-xfig fig  
application/x-xliff+xml xlf  
application/x-xpinstall xpi  
application/x-xz xz  
application/x-zmachine z1 z2 z3 z4 z5 z6 z7 z8  
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# audio/3gpp2  
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# audio/amr-wb+  
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# audio/asc  
# audio/atrac-advanced-lossless  
# audio/atrac-x  
# audio/atrac3

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# audio/smv-qcp  
# audio/smv0  
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# audio/ulpfec  
# audio/vdvi

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audio/x-flac flac
audio/x-matroska mka
```

audio/x-mpegurl m3u  
audio/x-ms-wax wax  
audio/x-ms-wma wma  
audio/x-pn-realaudio ram ra  
audio/x-pn-realaudio-plugin rmp  
# audio/x-tta  
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audio/xm xm  
chemical/x-cdx cdx  
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chemical/x-cmdf cmdf  
chemical/x-cml cml  
chemical/x-csml csml  
# chemical/x-pdb  
chemical/x-xyz xyz  
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image/cgm cgm  
# image/dicom-rlc  
# image/emf  
# image/example  
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image/gif gif  
image/ief ief  
# image/jls  
# image/jp2  
image/jpeg jpeg jpg jpe  
# image/jpm  
# image/jpx  
image/ktx ktx  
# image/naplps  
image/png png  
image/prs.btif btif  
#  
image/prs.pti  
# image/pwg-raster  
image/sgi sgi  
image/svg+xml svg svgz  
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# image/tiff-fx  
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# image/vnd.mix  
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image/x-freehand fh  
fhc fh4 fh5 fh7  
image/x-icon ico  
image/x-mrsid-image sid  
image/x-pcx pcx  
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image/x-rgb rgb  
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image/x-xbitmap xbm  
image/x-xpixmap xpm  
image/x-xwindowdump xwd  
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# message/delivery-status  
# message/disposition-notification  
# message/example  
# message/external-body

# message/feedback-report  
# message/global  
# message/global-delivery-status  
# message/global-disposition-notification  
# message/global-headers  
# message/http  
# message/imdn+xml  
# message/news  
# message/partial  
message/rfc822 eml mime  
# message/s-http  
# message/sip  
# message/sipfrag  
# message/tracking-status  
# message/vnd.si.simp  
# message/vnd.wfa.wsc  
# model/example  
# model/gltf+json  
model/iges igs iges  
model/mesh msh mesh silo  
model/vnd.collada+xml dae  
model/vnd.dwf dwf  
#  
model/vnd.flatland.3dml  
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# model/vnd.gs-gdl  
# model/vnd.gs.gdl  
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# model/x3d-vrml  
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# multipart/byteranges  
# multipart/digest  
# multipart/encrypted  
# multipart/example

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# multipart/mixed  
# multipart/parallel  
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# multipart/voice-message  
# multipart/x-mixed-replace  
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text/calendar ics ifb  
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#  
text/directory  
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# text/javascript  
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# text/markdown  
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text/plain txt text conf def list log in  
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# text/prs.prop.logic  
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# text/rtx  
text/sgml sgml sgm  
# text/t140  
text/tab-separated-values tsv



text/troff t tr roff man me ms  
text/turtle ttl  
# text/ulpfec  
text/uri-list uri uris urls  
text/vcard vcard  
# text/vnd.a  
# text/vnd.abc  
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text/vnd.curl.mcurl mcurl  
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#  
text/vnd.ipc.newsml  
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text/x-opml opml  
text/x-pascal p pas  
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text/x-vcalendar vcs  
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# text/xml

```
text/xml-external-parsed-entity
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video/3gpp 3gp
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video/dv
video/encaprtsp
#
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video/mpeg4-generic
video/mpv
video/nv
video/ogg ogv
video/parityfec
video/pointer
video/quicktime qt mov
video/raptorfec
video/raw
video/rtp-enc-aescm128
video/rtploopback
video/rtx
video/smp2092m
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video/vc1
video/vnd.cctv
video/vnd.dece.hd uvh uvvh
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video/vnd.dece.mobile uvm uvvm  
# video/vnd.dece.mp4  
video/vnd.dece.pd uvp uvvp  
video/vnd.dece.sd uvs uvvs  
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# video/vnd.directv.mpeg  
# video/vnd.directv.mpeg-tts  
# video/vnd.dlna.mpeg-tts  
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video/x-sgi-movie movie  
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\* /opt/cola/permits/1749322174\_1689879503.3822799/0/spring-web-5-3-29-sources-jar/org/springframework/http/mime.types

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\* /opt/cola/permits/1749322174\_1689879503.3822799/0/spring-web-5-3-29-sources-jar/org/springframework/web/server/WebHandler.java

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\* /opt/cola/permits/1749322174\_1689879503.3822799/0/spring-web-5-3-29-sources-jar/org/springframework/web/cors/CorsConfigurationSource.java  
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jar/org/springframework/http/client/ClientHttpRequest.java
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
* See the License for the specific language governing permissions and
* limitations under the License.
*/
/**
* Return the web session for the current request. Always guaranteed to
* return an instance either matching to the session id requested by the
* client, or with a new session id either because the client did not
* specify one or because the underlying session had expired. Use of this
* method
does not automatically create a session. See { @link WebSession }
* for more details.
*/
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\* /opt/cola/permits/1749322174\_1689879503.3822799/0/spring-web-5-3-29-sources-jar/org/springframework/web/util/HtmlCharacterEntityReferences.java  
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org.springframework.web.server.adapter.WebHttpHandlerBuilder\$SpringWebBlockHoundIntegration

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## 1.1055 gopkg.in-yaml 3.0.1

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# 1.1056 gopkg.in-ini 1.67.0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				

2.1.1 2001-now PSF yes

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```
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jar/org/springframework/context/support/AbstractApplicationContext.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/concurrent/ConcurrentTaskScheduler.java
*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/event/ApplicationListenerMethodAdapter.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/support/BeanDefinitionDsl.kt
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/annotation/Scheduled.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/concurrent/ThreadPoolTaskScheduler.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/concurrent/ConcurrentTaskExecutor.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/cache/interceptor/NameMatchCacheOperationSource.java
*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/support/DefaultLifecycleProcessor.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
```

jar/org/springframework/scheduling/concurrent/ExecutorConfigurationSupport.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/context/support/ContextTypeMatchClassLoader.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/validation/FieldError.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/scheduling/concurrent/ReschedulingRunnable.java  
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```

jar/org/springframework/remoting/rmi/RmiRegistryFactoryBean.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/cache/config/CacheAdviceParser.java
*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scripting/config/ScriptingDefaultsParser.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/jmx/export/metadata/ManagedAttribute.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/validation/DefaultBindingErrorProcessor.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/format/annotation/NumberFormat.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/jmx/support/ObjectNameManager.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/jndi/JndiObjectLocator.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/remoting/support/RemoteInvocationBasedExporter.java
*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/cache/interceptor/AbstractCacheResolver.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/annotation/EnableAsync.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/concurrent/ForkJoinPoolFactoryBean.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/validation/ValidationUtils.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/remoting/support/RemoteInvocationResult.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/annotation/DependsOn.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/jmx/export/asm/AbstractReflectiveMBeanInfoAssembler.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/MessageSourceAware.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/EmbeddedValueResolverAware.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/remoting/rmi/RmiInvocationWrapper.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/validation/SmartValidator.java
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/opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/validation/AbstractPropertyBindingResult.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/ejb/access/LocalStatelessSessionProxyFactoryBean.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/context/support/MessageSourceAccessor.java  
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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/format/FormatterRegistry.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/context/weaving/AspectJWeavingEnabler.java  
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/opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/cache/interceptor/SimpleCacheResolver.java  
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/instrument/classloading/websphere/WebSphereClassLoaderAdapter.java
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*/
/**
 * {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
 * reference through WebSphere's proprietary {@code AdminServiceFactory} API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the {@code MBeanServer} for bean references.
 *
 * <p>This {@code FactoryBean} is
 * a direct alternative to {@link MBeanServerFactoryBean},
 * which uses standard JMX 1.2 API to access the platform's {@link MBeanServer}.
 *
 * <p>See the javadocs for WebSphere's
 * <a
 * href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
 * /com/ibm/websphere/management/AdminServiceFactory.html">{@code AdminServiceFactory}
 * and
 * <a
 * href="https://www.ibm.com/support/knowledgecenter/SSEQTJ_9.0.0/com.ibm.websphere.javadoc.doc/web/apidocs
 * /com/ibm/websphere/management/MBeanFactory.html">{@code MBeanFactory}.
 *
 * @author Juergen Hoeller
 * @author Rob Harrop
 * @since 2.0.3
 * @see javax.management.MBeanServer
 * @see MBeanServerFactoryBean
 */

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Found in path(s):

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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/context/ApplicationEventPublisherAware.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java  
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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisherAware.java

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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/format/datetime/standard/DurationFormatter.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-

jar/org/springframework/scripting/bsh/BshScriptFactory.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/cache/interceptor/SimpleKeyGenerator.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/format/Parser.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/context/annotation/ScopeMetadataResolver.java  
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```

Found in path(s):

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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/cache/annotation/CacheConfig.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedMetric.java
*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/format/datetime/joda/PeriodFormatter.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/annotation/ImportResource.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scripting/config/LangNamespaceHandler.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/annotation/Role.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
*
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/opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/scripting/ScriptEvaluator.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/context/annotation/ComponentScans.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/format/datetime/joda/DurationFormatter.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/remoting/RemoteTimeoutException.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/scripting/support/StandardScriptEvalException.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/context/event/EventListenerFactory.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/validation/beanvalidation/SpringConstraintValidatorFactory.java  
\*

/opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/format/number/PercentStyleFormatter.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/format/datetime/joda/MonthDayFormatter.java  
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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/remoting/support/RemoteInvocationExecutor.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/jmx/export/SpringModelMBean.java  
\*  
/opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/remoting/support/RemoteInvocationFactory.java

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*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/jmx/export/annotation/ManagedOperationParameter.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/ui/Model.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/ui/ExtendedModelMap.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/config/ScheduledTask.java
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/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/cache/annotation/Cacheable.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/stereotype/Service.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/validation/DataBinder.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/scripting/support/StandardScriptFactory.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/jmx/export/annotation/ManagedOperation.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/jmx/export/naming/MetadataNamingStrategy.java  
\*  
/opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/validation/beanvalidation/LocalValidatorFactoryBean.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/jmx/access/NotificationListenerRegistrar.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/jmx/export/annotation/ManagedNotification.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-  
jar/org/springframework/cache/interceptor/LoggingCacheErrorHandler.java  
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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/ui/ModelExtensions.kt  
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/\*\*  
\* Indicates that a component is only eligible for registration when all  
\* { @linkplain #value specified conditions } match.  
\*  
\* <p>A <em>condition</em> is any state that can be determined programmatically  
\* before the bean definition is due to be registered (see { @link Condition } for details).  
\*  
\*  
\* <p>The { @code @Conditional } annotation may be used in any of the following ways:  
\* <ul>  
\* <li>as a type-level annotation on any class directly or indirectly annotated with  
\* { @code @Component }, including { @link Configuration @Configuration } classes</li>  
\* <li>as a meta-annotation, for the purpose of composing custom stereotype  
\* annotations</li>

- \* <li>as a method-level annotation on any { @link Bean @Bean } method</li>
- \* </ul>
- \*
- \* <p>If a { @code @Configuration } class is marked with { @code @Conditional },
- \* all of the { @code @Bean } methods, { @link Import @Import } annotations, and
- \* { @link ComponentScan @ComponentScan } annotations associated with that
- \* class will be subject to the conditions.
- \*
- \* <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
- \* is not supported; any conditions from superclasses or from overridden
- \* methods will not be considered. In order to enforce these semantics,
- \* { @code @Conditional } itself is not declared as
- \* { @link java.lang.annotation.Inherited
- @Inherited } ; furthermore, any
- \* custom <em>composed annotation</em> that is meta-annotated with
- \* { @code @Conditional } must not be declared as { @code @Inherited } .
- \*
- \* @author Phillip Webb
- \* @author Sam Brannen
- \* @since 4.0
- \* @see Condition
- \*/

Found in path(s):

- \* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/context/annotation/Conditional.java

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- \* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/scripting/groovy/GroovyScriptFactory.java

- \* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-



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jar/org/springframework/validation/BindException.java
*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/config/ScheduledTaskRegistrar.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/annotation/ProxyAsyncConfiguration.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/validation/AbstractBindingResult.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-

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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java  
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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/remoting/support/DefaultRemoteInvocationExecutor.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/ui/context/ThemeSource.java  
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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/jmx/MBeanServerNotFoundException.java

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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/remoting/RemoteInvocationFailureException.java

\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java

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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java

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\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/ui/context/HierarchicalThemeSource.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/validation/MessageCodesResolver.java  
\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/remoting/RemoteProxyFailureException.java  
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jar/org/springframework/context/annotation/ParserStrategyUtils.java
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jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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jar/org/springframework/context/annotation/ClassPathBeanDefinitionScanner.java

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jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt

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jar/org/springframework/jmx/export/metadata/ManagedOperation.java

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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
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* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/validation/annotation/Validated.java
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jar/org/springframework/format/datetime/joda/ReadablePartialPrinter.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
*
/opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/format/datetime/joda/ReadableInstantPrinter.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/support/MessageSourceResourceBundle.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/annotation/Description.java
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
jar/org/springframework/context/annotation/FilterType.java
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```

```
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*/
/**
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
*
* @author Stephane Nicoll
* @since 4.1
*/
```

Found in path(s):

```
* /opt/cola/permits/1809683109_1695927677.3899505/0/spring-context-5-3-29-sources-1-
```



jar/org/springframework/cache/interceptor/CacheOperationInvoker.java

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Found in path(s):

\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/format/datetime/standard/DateTimeFormatterFactory.java

\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/scheduling/concurrent/ThreadPoolExecutorFactoryBean.java

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/opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/context/PayloadApplicationEvent.java

\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java

\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/scheduling/config/CronTask.java

\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/ui/ConcurrentModel.java

\* /opt/cola/permits/1809683109\_1695927677.3899505/0/spring-context-5-3-29-sources-1-jar/org/springframework/cache/interceptor/CacheAspectSupport.java

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jar/org/springframework/context/event/SmartApplicationListener.java

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```
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/AbstractAspectJAdvice.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/annotation/AnnotationClassFilter.java
*
/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/AopProxyUtils.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/AopUtils.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoprox/AbstractAutoProxyCreator.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/annotation/AnnotationMatchingPointcut.java
*
/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/interceptor/AsyncExecutionAspectSupport.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/DefaultAopProxyFactory.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterThrowingAdvice.java  
\*  
/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adaptor/MethodBeforeAdviceInterceptor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/PointcutEntry.java  
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/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/AbstractAdvisorAutoProxyCreator.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adaptor/AfterReturningAdviceInterceptor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAroundAdvice.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/autoproxy/AspectJAwareAdvisorAutoProxyCreator.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/BeanNameAutoProxyCreator.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/Advised.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-

jar/org/springframework/aop/framework/adapter/ThrowsAdviceInterceptor.java  
\*  
/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/config/AdviceEntry.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/config/AspectEntry.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/config/AdvisorEntry.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/interceptor/ExposeInvocationInterceptor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/interceptor/SimpleTraceInterceptor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/config/AopNamespaceHandler.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/interceptor/AbstractTraceInterceptor.java  
\*  
/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/aspectj/autoproxy/AspectJPrecedenceComparator.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/framework/ProxyCreatorSupport.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectJAdvisorsBuilder.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/aspectj/annotation/ReflectiveAspectJAdvisorFactory.java  
\*  
/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/aspectj/AspectJProxyUtils.java  
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  - \* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AdvisedSupportListener.java
  - \* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/BeforeAdvice.java
  - \* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
  - \* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AopInfrastructureBean.java
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- \* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/TypePatternClassFilter.java
- \* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/scope/ScopedProxyUtils.java
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/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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jar/org/springframework/aop/support/Pointcuts.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/RootClassFilter.java
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jar/org/springframework/aop/MethodMatcher.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java
*
/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/ClassFilters.java
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/AspectJAdvisorFactory.java
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/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/TargetClassAware.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/ProxyMethodInvocation.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJMethodBeforeAdvice.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/SimpleAsyncUncaughtExceptionHandler.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/DeclareParentsAdvisor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/ConfigBeanDefinitionParser.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/annotation/NotAnAtAspectException.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/scope/ScopedProxyFactoryBean.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/aopalliance/aop/AspectException.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/DynamicMethodMatcher.java  
\*



/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/MethodBeforeAdvice.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AdvisorChainFactory.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/StaticMethodMatcherPointcutAdvisor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJPointcutAdvisor.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/ProxyProcessorSupport.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/BeanFactoryAdvisorRetrievalHelper.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/AbstractPrototypeBasedTargetSource.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/MethodInterceptor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AopConfigUtils.java  
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/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AbstractSingletonProxyFactoryBean.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/autoproxy/DefaultAdvisorAutoProxyCreator.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/AbstractRegexpMethodPointcut.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/AsyncExecutionInterceptor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/IntroductionInfoSupport.java  
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/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AopNamespaceUtils.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-

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jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java
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jar/org/springframework/aop/framework/adapter/GlobalAdvisorAdapterRegistry.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/BeanFactoryAspectInstanceFactory.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/target/CommonsPool2TargetSource.java
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jar/org/aopalliance/intercept/ConstructorInvocation.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/TargetSource.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/TrueMethodMatcher.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/TruePointcut.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/AspectJPrecedenceInformation.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/ProxyCreationContext.java
*
/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/TrueClassFilter.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/StaticMethodMatcher.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/SimpleAspectInstanceFactory.java
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/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/target/AbstractLazyCreationTargetSource.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/target/SingletonTargetSource.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/target/EmptyTargetSource.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
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jar/org/springframework/aop/framework/AdvisedSupport.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/target/AbstractPoolingTargetSource.java
*
/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/DynamicIntroductionAdvice.java
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/Joinpoint.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/annotation/AbstractAspectJAdvisorFactory.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/AbstractBeanFactoryPointcutAdvisor.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/interceptor/JamonPerformanceMonitorInterceptor.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/AbstractInterceptorDrivenBeanDefinitionDecorator.java  
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* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/config/AspectComponentDefinition.java
*
/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/AspectJExpressionPointcutAdvisor.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/interceptor/PerformanceMonitorInterceptor.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/DefaultPointcutAdvisor.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/config/MethodLocatingFactoryBean.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/aspectj/annotation/AnnotationAwareAspectJAutoProxyCreator.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/framework/autoproxy/InfrastructureAdvisorAutoProxyCreator.java
*
/opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/ExpressionPointcut.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/AbstractPointcutAdvisor.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/config/SimpleBeanFactoryAwareAspectInstanceFactory.java
* /opt/cola/permits/1809683140_1695927702.031125/0/spring-aop-5-3-29-sources-1-
jar/org/springframework/aop/support/DefaultBeanFactoryPointcutAdvisor.java
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/LazyInitTargetSource.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AopProxyFactory.java  
\*  
/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/StaticMethodMatcherPointcut.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/config/ScopedProxyBeanDefinitionDecorator.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adaptor/AfterReturningAdviceAdapter.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/scope/DefaultScopedObject.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/AopInvocationException.java  
\*  
/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/support/JdkRegexpMethodPointcut.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/dynamic/Refreshable.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/IntroductionInfo.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/SimpleBeanTargetSource.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/AopConfigException.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/PoolingConfig.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/ThreadLocalTargetSourceStats.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/target/dynamic/BeanFactoryRefreshableTargetSource.java  
\*  
/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adaptor/AdvisorAdapter.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/IntroductionAdvisor.java  
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\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/framework/adaptor/AdvisorAdapterRegistrationManager.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-

jar/org/springframework/aop/framework/adapter/UnknownAdviceTypeException.java  
\*  
/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/framework/adapter/MethodBeforeAdviceAdapter.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/Pointcut.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/config/SpringConfiguredBeanDefinitionParser.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/aspectj/AspectJAopUtils.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/framework/AopProxy.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
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jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/aopalliance/aop/Advice.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/framework/ProxyFactory.java  
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/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/aopalliance/intercept/MethodInvocation.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/aspectj/annotation/SingletonMetadataAwareAspectInstanceFactory.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-  
jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java



\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java  
\* /opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/ConstructorInterceptor.java  
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/opt/cola/permits/1809683140\_1695927702.031125/0/spring-aop-5-3-29-sources-1-jar/org/aopalliance/intercept/Invocation.java

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## 1.1066 python-setuptools 68.2.2

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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