RFC 26 - An Execution Environment (J2ME CDC/FP)

Confidential, Draft
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163 Pages

Abstract

This document proposes the Java™ 2 Micro Edition Connected Device Configuration/Foundation Profile (J2ME™ CDC/Foundation Profile) as an OSGi standard Execution Environment for bundles.

0 Document Information

0.1 Table of Contents

All Page Within This Box

All Page Within This Box

All Page Within This Box

All Page Within This Box

All Page Within This Box

0.2 Status

This document specifies the J2ME CDC Foundation Profile as an Execution Environment for bundles for the Open Services Gateway Initiative, and requests discussion and suggestions for improvements. Distribution of this document is unlimited within OSGi.

0.3 Acknowledgement

0.4 Terminology and Document Conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY" and "OPTIONAL" in this document are to be interpreted as described in [1].

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Source code is shown in this typeface.
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0.5 Revision History

The last named individual in this history is currently responsible for this document.

Revision	Date	Comments
Initial draft based on CDC	Jun 12, 2001	David Bowen, Sun Microsystems, Inc.
Re-submission draft based on CDC/Foundation Profile	Dec 06 2001	Kirk Chen, Sun Microsystems, Inc.

1 Introduction

This document proposes the Java 2 Micro Edition (J2ME) Connected Device Configuration (CDC) [2] Foundation Profile [3] 1.0 as an Execution Environment for OSGi bundles.

All Page Within This Box

2 Motivation and Rationale

It is the goal of OSGi to define one or more "platforms" such that implementations can be certified as conformant to the platform, and bundle developers can write bundles that can be expected to run on any conformant implementation. Any such platform must specify a required subset of the core Java libraries. RFC 6 [4] defines the concept of an Execution Environment, which is a formal way of specifying such a subset, and this document proposes that we standardize on one comprising the APIs in J2ME CDC/Foundation Profile version 1.0. The Execution Environment itself is a set of Java source files. This RFC does not list all those source files, but instead lists their public/protected APIs in a more readable and concise format. The actual Execution Environment can be regarded as an implementation of this RFC.

The advantages for OSGi to specify CDC/Foundation Profile as the Execution Environment are the following:

- J2ME CDC/Foundation Profile is developed by JCP (http://www.jcp.org), an open process not controlled by any one company, including Sun.
- CDC/Foundation Profile is bigger than RFC 39, but the additional features are important. For example, during deployment we may need to look beyond the gateways for an end-to-end solution that includes management and provisioning. Then the java.security classes are needed for using certificates and public key crypto to ensure security between backend servers and the gateways.
- Our experience here at Sun shows that it takes time for compatibility tests of a platform to mature. This work has already been done for CDC/Foundation Profile. This can be considerable savings in effort for OSGi to have a predictable and unambiguous Java platform from both technical and legal perspectives.
- Having additional functionality makes the platform future-proof. We can measure the bundles that have been developed as of today, but not those that have not been written. Ultimately the competition will be the key force driving down the cost, rather than 1 mb more or less in memory capacity. Feature-rich bundles are probably essential for that market to emerge.

3 Technical Discussion

The J2ME CDC/Foundation Profile is a subset of Java™ 2 Standard Edition 1.3 API [5], except for support for the Generic Connections framework from J2ME CLDC. The Generic Connection framework is a small library, originally designed to allow support for a variety of communications protocols on very small devices such as cell phones. The required protocols in CDC/Foundation Profile are "file:",   , "socket:", and "http:". The Foundation Profile contains 429 classes, while J2SE™ has 1946 and CDC has 305 classes respectively.

The following table compares the classes in the Foundation Profile with J2SE by package. If the only differences from J2SE are the removed deprecated APIs, we consider the Foundation Profile package to be complete.

Package	Comparison with J2SE
java.io	complete
java.lang	complete
java.lang.ref	complete
java.lang.reflect	complete

java.math	BigInteger included, BigDecimal removed
java.net	complete
java.security	complete
java.security.acl	complete
java.security.cert	complete
java.security.interfaces	complete
java.security.spec	complete
java.text	complete
java.util	complete
java.util.jar	complete
java.util.zip	complete
javax.microedition.io	not in J2SE

3.1 Package java.io

3.1.1 java.io.BufferedInputStream

public class java.io.BufferedInputStream extends java.io.FilterInputStream	
protected byte	**buf**
protected int	**count**
protected int	**marklimit**
protected int	**markpos**
protected int	**pos**
public	**BufferedInputStream**(java.io.InputStream)
public	**BufferedInputStream**(java.io.InputStream, int)
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public void	**mark**(int)
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public void	**reset**() throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.2 java.io.BufferedOutputStream

public class java.io.BufferedOutputStream extends java.io.FilterOutputStream	
protected byte	**buf**
protected int	**count**
public	**BufferedOutputStream**(java.io.OutputStream)
public	**BufferedOutputStream**(java.io.OutputStream, int)
public void	**flush**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException

All Page Within This Box

3.1.3 java.io.BufferedReader

public class java.io.BufferedReader extends java.io.Reader	
public	**BufferedReader**(java.io.Reader, int)
public	**BufferedReader**(java.io.Reader)
public void	**close**() throws java.io.IOException
public void	**mark**(int) throws java.io.IOException
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(char[], int, int) throws java.io.IOException
public java.lang.String	**readLine**() throws java.io.IOException
public boolean	**ready**() throws java.io.IOException
public void	**reset**() throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.4 java.io.BufferedWriter

public class java.io.BufferedWriter extends java.io.Writer	
public	**BufferedWriter**(java.io.Writer)
public	**BufferedWriter**(java.io.Writer, int)
public void	**close**() throws java.io.IOException
public void	**flush**() throws java.io.IOException
public void	**newLine**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(char[], int, int) throws java.io.IOException
public void	**write**(java.lang.String, int, int) throws java.io.IOException

3.1.5 java.io.ByteArrayInputStream

public class java.io.ByteArrayInputStream extends java.io.InputStream	
protected byte	**buf**
protected int	**count**
protected int	**mark**
protected int	**pos**
public	**ByteArrayInputStream**(byte[])
public	**ByteArrayInputStream**(byte[], int, int)
public int	**available**()
public void	**close**() throws java.io.IOException
public void	**mark**(int)
public boolean	**markSupported**()
public int	**read**()
public int	**read**(byte[], int, int)
public void	**reset**()

All Page Within This Box

public long	**skip**(long)

3.1.6 java.io.ByteArrayOutputStream

public class java.io.ByteArrayOutputStream extends java.io.OutputStream	
protected byte	**buf**
protected int	**count**
public	**ByteArrayOutputStream**()
public	**ByteArrayOutputStream**(int)
public void	**close**() throws java.io.IOException
public void	**reset**()
public int	**size**()
public byte	**toByteArray**()
public java.lang.String	**toString**()
public java.lang.String	**toString**(java.lang.String) throws java.io.UnsupportedEncodingException
public void	**write**(int)
public void	**write**(byte[], int, int)
public void	**writeTo**(java.io.OutputStream) throws java.io.IOException

3.1.7 java.io.CharArrayReader

public class java.io.CharArrayReader extends java.io.Reader	
protected char	**buf**
protected int	**count**
protected int	**markedPos**
protected int	**pos**
public	**CharArrayReader**(char[])
public	**CharArrayReader**(char[], int, int)
public void	**close**()
public void	**mark**(int) throws java.io.IOException
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(char[], int, int) throws java.io.IOException
public boolean	**ready**() throws java.io.IOException
public void	**reset**() throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.8 java.io.CharArrayWriter

public class java.io.CharArrayWriter extends java.io.Writer	
protected char	**buf**
protected int	**count**
public	**CharArrayWriter**()

All Page Within This Box

public	**CharArrayWriter**(int)
public void	**close**()
public void	**flush**()
public void	**reset**()
public int	**size**()
public char	**toCharArray**()
public java.lang.String	**toString**()
public void	**write**(int)
public void	**write**(char[], int, int)
public void	**write**(java.lang.String, int, int)
public void	**writeTo**(java.io.Writer) throws java.io.IOException

3.1.9 java.io.CharConversionException

public class java.io.CharConversionException extends java.io.IOException	
public	**CharConversionException**()
public	**CharConversionException**(java.lang.String)

3.1.10 java.io.DataInput

public abstract interface java.io.DataInput	
public boolean	**readBoolean**() throws java.io.IOException
public byte	**readByte**() throws java.io.IOException
public char	**readChar**() throws java.io.IOException
public double	**readDouble**() throws java.io.IOException
public float	**readFloat**() throws java.io.IOException
public void	**readFully**(byte[]) throws java.io.IOException
public void	**readFully**(byte[], int, int) throws java.io.IOException
public int	**readInt**() throws java.io.IOException
public java.lang.String	**readLine**() throws java.io.IOException
public long	**readLong**() throws java.io.IOException
public short	**readShort**() throws java.io.IOException
public java.lang.String	**readUTF**() throws java.io.IOException
public int	**readUnsignedByte**() throws java.io.IOException
public int	**readUnsignedShort**() throws java.io.IOException
public int	**skipBytes**(int) throws java.io.IOException

3.1.11 java.io.DataInputStream

public class java.io.DataInputStream extends java.io.FilterInputStream implements java.io.DataInput	
public	**DataInputStream**(java.io.InputStream)
public final int	**read**(byte[]) throws java.io.IOException
public final int	**read**(byte[], int, int) throws java.io.IOException

All Page Within This Box

public final boolean	**readBoolean**() throws java.io.IOException
public final byte	**readByte**() throws java.io.IOException
public final char	**readChar**() throws java.io.IOException
public final double	**readDouble**() throws java.io.IOException
public final float	**readFloat**() throws java.io.IOException
public final void	**readFully**(byte[]) throws java.io.IOException
public final void	**readFully**(byte[], int, int) throws java.io.IOException
public final int	**readInt**() throws java.io.IOException
public final java.lang.String	**readLine**() throws java.io.IOException
public final long	**readLong**() throws java.io.IOException
public final short	**readShort**() throws java.io.IOException
public final java.lang.String	**readUTF**() throws java.io.IOException
public static final java.lang.String	**readUTF**(java.io.DataInput) throws java.io.IOException
public final int	**readUnsignedByte**() throws java.io.IOException
public final int	**readUnsignedShort**() throws java.io.IOException
public final int	**skipBytes**(int) throws java.io.IOException

3.1.12 java.io.DataOutput

public abstract interface java.io.DataOutput	
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[]) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException
public void	**writeBoolean**(boolean) throws java.io.IOException
public void	**writeByte**(int) throws java.io.IOException
public void	**writeBytes**(java.lang.String) throws java.io.IOException
public void	**writeChar**(int) throws java.io.IOException
public void	**writeChars**(java.lang.String) throws java.io.IOException
public void	**writeDouble**(double) throws java.io.IOException
public void	**writeFloat**(float) throws java.io.IOException
public void	**writeInt**(int) throws java.io.IOException
public void	**writeLong**(long) throws java.io.IOException
public void	**writeShort**(int) throws java.io.IOException
public void	**writeUTF**(java.lang.String) throws java.io.IOException

3.1.13 java.io.DataOutputStream

public class java.io.DataOutputStream extends java.io.FilterOutputStream implements java.io.DataOutput	
protected int	**written**
public	**DataOutputStream**(java.io.OutputStream)
public void	**flush**() throws java.io.IOException
public final int	**size**()

All Page Within This Box

public void	**write**(int) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException
public final void	**writeBoolean**(boolean) throws java.io.IOException
public final void	**writeByte**(int) throws java.io.IOException
public final void	**writeBytes**(java.lang.String) throws java.io.IOException
public final void	**writeChar**(int) throws java.io.IOException
public final void	**writeChars**(java.lang.String) throws java.io.IOException
public final void	**writeDouble**(double) throws java.io.IOException
public final void	**writeFloat**(float) throws java.io.IOException
public final void	**writeInt**(int) throws java.io.IOException
public final void	**writeLong**(long) throws java.io.IOException
public final void	**writeShort**(int) throws java.io.IOException
public final void	**writeUTF**(java.lang.String) throws java.io.IOException

3.1.14 java.io.EOFException

public class java.io.EOFException extends java.io.IOException	
public	**EOFException**()
public	**EOFException**(java.lang.String)

3.1.15 java.io.Externalizable

public abstract interface java.io.Externalizable extends java.io.Serializable	
public void	**readExternal**(java.io.ObjectInput) throws java.io.IOException, java.lang.ClassNotFoundException
public void	**writeExternal**(java.io.ObjectOutput) throws java.io.IOException

3.1.16 java.io.File

public class java.io.File extends java.lang.Object implements java.io.Serializable, java.lang.Comparable	
public static final java.lang.String	**pathSeparator**
public static final char	**pathSeparatorChar**
public static final java.lang.String	**separator**
public static final char	**separatorChar**
public	**File**(java.lang.String)
public	**File**(java.lang.String, java.lang.String)
public	**File**(java.io.File, java.lang.String)
public boolean	**canRead**()
public boolean	**canWrite**()
public int	**compareTo**(java.io.File)
public int	**compareTo**(java.lang.Object)
public boolean	**createNewFile**() throws java.io.IOException
public static java.io.File	**createTempFile**(java.lang.String, java.lang.String, java.io.File) throws java.io.IOException

All Page Within This Box

public static java.io.File	**createTempFile**(java.lang.String, java.lang.String) throws java.io.IOException
public boolean	**delete**()
public void	**deleteOnExit**()
public boolean	**equals**(java.lang.Object)
public boolean	**exists**()
public java.io.File	**getAbsoluteFile**()
public java.lang.String	**getAbsolutePath**()
public java.io.File	**getCanonicalFile**() throws java.io.IOException
public java.lang.String	**getCanonicalPath**() throws java.io.IOException
public java.lang.String	**getName**()
public java.lang.String	**getParent**()
public java.io.File	**getParentFile**()
public java.lang.String	**getPath**()
public int	**hashCode**()
public boolean	**isAbsolute**()
public boolean	**isDirectory**()
public boolean	**isFile**()
public boolean	**isHidden**()
public long	**lastModified**()
public long	**length**()
public java.lang.String	**list**()
public java.lang.String	**list**(java.io.FilenameFilter)
public java.io.File	**listFiles**()
public java.io.File	**listFiles**(java.io.FilenameFilter)
public java.io.File	**listFiles**(java.io.FileFilter)
public static java.io.File	**listRoots**()
public boolean	**mkdir**()
public boolean	**mkdirs**()
public boolean	**renameTo**(java.io.File)
public boolean	**setLastModified**(long)
public boolean	**setReadOnly**()
public java.lang.String	**toString**()
public java.net.URL	**toURL**() throws java.net.MalformedURLException

3.1.17 java.io.FileDescriptor

public final class java.io.FileDescriptor extends java.lang.Object	
public static final java.io.FileDescriptor	**err**
public static final java.io.FileDescriptor	**in**

public static final java.io.FileDescriptor	**out**
public	**FileDescriptor**()
public void	**sync**() throws java.io.SyncFailedException
public boolean	**valid**()

3.1.18 java.io.FileFilter

public abstract interface java.io.FileFilter

public boolean	**accept**(java.io.File)

3.1.19 java.io.FileInputStream

public class java.io.FileInputStream extends java.io.InputStream

public	**FileInputStream**(java.lang.String) throws java.io.FileNotFoundException
public	**FileInputStream**(java.io.File) throws java.io.FileNotFoundException
public	**FileInputStream**(java.io.FileDescriptor)
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
protected void	**finalize**() throws java.io.IOException
public final java.io.FileDescriptor	**getFD**() throws java.io.IOException
public int	**read**() throws java.io.IOException
public int	**read**(byte[]) throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.20 java.io.FileNotFoundException

public class java.io.FileNotFoundException extends java.io.IOException

public	**FileNotFoundException**()
public	**FileNotFoundException**(java.lang.String)

3.1.21 java.io.FileOutputStream

public class java.io.FileOutputStream extends java.io.OutputStream

public	**FileOutputStream**(java.lang.String) throws java.io.FileNotFoundException
public	**FileOutputStream**(java.lang.String, boolean) throws java.io.FileNotFoundException
public	**FileOutputStream**(java.io.File) throws java.io.FileNotFoundException
public	**FileOutputStream**(java.io.FileDescriptor)
public void	**close**() throws java.io.IOException
protected void	**finalize**() throws java.io.IOException
public final java.io.FileDescriptor	**getFD**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[]) throws java.io.IOException

All Page Within This Box

public void	**write**(byte[], int, int) throws java.io.IOException

3.1.22 java.io.FilePermission

public final class java.io.FilePermission extends java.security.Permission implements java.io.Serializable	
public	**FilePermission**(java.lang.String, java.lang.String)
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getActions**()
public int	**hashCode**()
public boolean	**implies**(java.security.Permission)
public java.security.PermissionCollection	**newPermissionCollection**()

3.1.23 java.io.FileReader

public class java.io.FileReader extends java.io.InputStreamReader	
public	**FileReader**(java.lang.String) throws java.io.FileNotFoundException
public	**FileReader**(java.io.File) throws java.io.FileNotFoundException
public	**FileReader**(java.io.FileDescriptor)

3.1.24 java.io.FileWriter

public class java.io.FileWriter extends java.io.OutputStreamWriter	
public	**FileWriter**(java.lang.String) throws java.io.IOException
public	**FileWriter**(java.lang.String, boolean) throws java.io.IOException
public	**FileWriter**(java.io.File) throws java.io.IOException
public	**FileWriter**(java.io.FileDescriptor)

3.1.25 java.io.FilenameFilter

public abstract interface java.io.FilenameFilter	
public boolean	**accept**(java.io.File, java.lang.String)

3.1.26 java.io.FilterInputStream

public class java.io.FilterInputStream extends java.io.InputStream	
protected java.io.InputStream	**in**
protected	**FilterInputStream**(java.io.InputStream)
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public void	**mark**(int)
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(byte[]) throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public void	**reset**() throws java.io.IOException

All Page Within This Box

| public long | **skip**(long) throws java.io.IOException |

3.1.27 java.io.FilterOutputStream

public class java.io.FilterOutputStream extends java.io.OutputStream	
protected java.io.OutputStream	**out**
public	**FilterOutputStream**(java.io.OutputStream)
public void	**close**() throws java.io.IOException
public void	**flush**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[]) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException

3.1.28 java.io.FilterReader

public abstract class java.io.FilterReader extends java.io.Reader	
protected java.io.Reader	**in**
protected	**FilterReader**(java.io.Reader)
public void	**close**() throws java.io.IOException
public void	**mark**(int) throws java.io.IOException
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(char[], int, int) throws java.io.IOException
public boolean	**ready**() throws java.io.IOException
public void	**reset**() throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.29 java.io.FilterWriter

public abstract class java.io.FilterWriter extends java.io.Writer	
protected java.io.Writer	**out**
protected	**FilterWriter**(java.io.Writer)
public void	**close**() throws java.io.IOException
public void	**flush**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(char[], int, int) throws java.io.IOException
public void	**write**(java.lang.String, int, int) throws java.io.IOException

3.1.30 java.io.IOException

public class java.io.IOException extends java.lang.Exception	
public	**IOException**()
public	**IOException**(java.lang.String)

All Page Within This Box

OSGi

3.1.31 java.io.InputStream

public abstract class java.io.InputStream extends java.lang.Object	
public	**InputStream**()
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public void	**mark**(int)
public boolean	**markSupported**()
public abstract int	**read**() throws java.io.IOException
public int	**read**(byte[]) throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public void	**reset**() throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.32 java.io.InputStreamReader

public class java.io.InputStreamReader extends java.io.Reader	
public	**InputStreamReader**(java.io.InputStream)
public	**InputStreamReader**(java.io.InputStream, java.lang.String) throws java.io.UnsupportedEncodingException
public void	**close**() throws java.io.IOException
public java.lang.String	**getEncoding**()
public int	**read**() throws java.io.IOException
public int	**read**(char[], int, int) throws java.io.IOException
public boolean	**ready**() throws java.io.IOException

3.1.33 java.io.InterruptedIOException

public class java.io.InterruptedIOException extends java.io.IOException	
public int	**bytesTransferred**
public	**InterruptedIOException**()
public	**InterruptedIOException**(java.lang.String)

3.1.34 java.io.InvalidClassException

public class java.io.InvalidClassException extends java.io.ObjectStreamException	
public java.lang.String	**classname**
public	**InvalidClassException**(java.lang.String)
public	**InvalidClassException**(java.lang.String, java.lang.String)
public java.lang.String	**getMessage**()

3.1.35 java.io.InvalidObjectException

public class java.io.InvalidObjectException extends java.io.ObjectStreamException	
public	**InvalidObjectException**(java.lang.String)

All Page Within This Box

3.1.36 java.io.LineNumberReader

public class java.io.LineNumberReader extends java.io.BufferedReader	
public	**LineNumberReader**(java.io.Reader)
public	**LineNumberReader**(java.io.Reader, int)
public int	**getLineNumber**()
public void	**mark**(int) throws java.io.IOException
public int	**read**() throws java.io.IOException
public int	**read**(char[], int, int) throws java.io.IOException
public java.lang.String	**readLine**() throws java.io.IOException
public void	**reset**() throws java.io.IOException
public void	**setLineNumber**(int)
public long	**skip**(long) throws java.io.IOException

3.1.37 java.io.NotActiveException

public class java.io.NotActiveException extends java.io.ObjectStreamException	
public	**NotActiveException**(java.lang.String)
public	**NotActiveException**()

3.1.38 java.io.NotSerializableException

public class java.io.NotSerializableException extends java.io.ObjectStreamException	
public	**NotSerializableException**(java.lang.String)
public	**NotSerializableException**()

3.1.39 java.io.ObjectInput

public abstract interface java.io.ObjectInput extends java.io.DataInput	
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public int	**read**() throws java.io.IOException
public int	**read**(byte[]) throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public java.lang.Object	**readObject**() throws java.lang.ClassNotFoundException, java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.40 java.io.ObjectInputStream

public class java.io.ObjectInputStream extends java.io.InputStream implements java.io.ObjectInput, java.io.ObjectStreamConstants	
public	**ObjectInputStream**(java.io.InputStream) throws java.io.IOException, java.io.StreamCorruptedException
protected	**ObjectInputStream**() throws java.io.IOException, java.lang.SecurityException
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException

All Page Within This Box

public void	**defaultReadObject**() throws java.io.IOException, java.lang.ClassNotFoundException, java.io.NotActiveException
protected boolean	**enableResolveObject**(boolean) throws java.lang.SecurityException
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public boolean	**readBoolean**() throws java.io.IOException
public byte	**readByte**() throws java.io.IOException
public char	**readChar**() throws java.io.IOException
protected java.io.ObjectStreamClass	**readClassDescriptor**() throws java.io.IOException, java.lang.ClassNotFoundException
public double	**readDouble**() throws java.io.IOException
public java.io.ObjectInputStream.GetField	**readFields**() throws java.io.IOException, java.lang.ClassNotFoundException, java.io.NotActiveException
public float	**readFloat**() throws java.io.IOException
public void	**readFully**(byte[]) throws java.io.IOException
public void	**readFully**(byte[], int, int) throws java.io.IOException
public int	**readInt**() throws java.io.IOException
public java.lang.String	**readLine**() throws java.io.IOException
public long	**readLong**() throws java.io.IOException
public final java.lang.Object	**readObject**() throws java.io.OptionalDataException, java.lang.ClassNotFoundException, java.io.IOException
protected java.lang.Object	**readObjectOverride**() throws java.io.OptionalDataException, java.lang.ClassNotFoundException, java.io.IOException
public short	**readShort**() throws java.io.IOException
protected void	**readStreamHeader**() throws java.io.IOException, java.io.StreamCorruptedException
public java.lang.String	**readUTF**() throws java.io.IOException
public int	**readUnsignedByte**() throws java.io.IOException
public int	**readUnsignedShort**() throws java.io.IOException
public void	**registerValidation**(java.io.ObjectInputValidation, int) throws java.io.NotActiveException, java.io.InvalidObjectException
protected java.lang.Class	**resolveClass**(java.io.ObjectStreamClass) throws java.io.IOException, java.lang.ClassNotFoundException
protected java.lang.Object	**resolveObject**(java.lang.Object) throws java.io.IOException
protected java.lang.Class	**resolveProxyClass**(java.lang.String[]) throws java.io.IOException, java.lang.ClassNotFoundException
public int	**skipBytes**(int) throws java.io.IOException

3.1.41 java.io.ObjectInputStream.GetField

public abstract class java.io.ObjectInputStream.GetField extends java.lang.Object	
public	**ObjectInputStream.GetField**()
public abstract boolean	**defaulted**(java.lang.String) throws java.io.IOException,

All Page Within This Box

	java.lang.IllegalArgumentException
public abstract boolean	**get**(java.lang.String, boolean) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract char	**get**(java.lang.String, char) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract byte	**get**(java.lang.String, byte) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract short	**get**(java.lang.String, short) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract int	**get**(java.lang.String, int) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract long	**get**(java.lang.String, long) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract float	**get**(java.lang.String, float) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract double	**get**(java.lang.String, double) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract java.lang.Object	**get**(java.lang.String, java.lang.Object) throws java.io.IOException, java.lang.IllegalArgumentException
public abstract java.io.ObjectStreamClass	**getObjectStreamClass**()

3.1.42 java.io.ObjectInputValidation

public abstract interface java.io.ObjectInputValidation	
public void	**validateObject**() throws java.io.InvalidObjectException

3.1.43 java.io.ObjectOutput

public abstract interface java.io.ObjectOutput extends java.io.DataOutput	
public void	**close**() throws java.io.IOException
public void	**flush**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[]) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException
public void	**writeObject**(java.lang.Object) throws java.io.IOException

3.1.44 java.io.ObjectOutputStream

public class java.io.ObjectOutputStream extends java.io.OutputStream implements java.io.ObjectOutput, java.io.ObjectStreamConstants	
public	**ObjectOutputStream**(java.io.OutputStream) throws java.io.IOException
protected	**ObjectOutputStream**() throws java.io.IOException, java.lang.SecurityException
protected void	**annotateClass**(java.lang.Class) throws java.io.IOException
protected void	**annotateProxyClass**(java.lang.Class) throws java.io.IOException
public void	**close**() throws java.io.IOException

All Page Within This Box

public void	**defaultWriteObject**() throws java.io.IOException
protected void	**drain**() throws java.io.IOException
protected boolean	**enableReplaceObject**(boolean) throws java.lang.SecurityException
public void	**flush**() throws java.io.IOException
public java.io.ObjectOutputStream.PutField	**putFields**() throws java.io.IOException
protected java.lang.Object	**replaceObject**(java.lang.Object) throws java.io.IOException
public void	**reset**() throws java.io.IOException
public void	**useProtocolVersion**(int) throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[]) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException
public void	**writeBoolean**(boolean) throws java.io.IOException
public void	**writeByte**(int) throws java.io.IOException
public void	**writeBytes**(java.lang.String) throws java.io.IOException
public void	**writeChar**(int) throws java.io.IOException
public void	**writeChars**(java.lang.String) throws java.io.IOException
protected void	**writeClassDescriptor**(java.io.ObjectStreamClass) throws java.io.IOException
public void	**writeDouble**(double) throws java.io.IOException
public void	**writeFields**() throws java.io.IOException
public void	**writeFloat**(float) throws java.io.IOException
public void	**writeInt**(int) throws java.io.IOException
public void	**writeLong**(long) throws java.io.IOException
public final void	**writeObject**(java.lang.Object) throws java.io.IOException
protected void	**writeObjectOverride**(java.lang.Object) throws java.io.IOException
public void	**writeShort**(int) throws java.io.IOException
protected void	**writeStreamHeader**() throws java.io.IOException
public void	**writeUTF**(java.lang.String) throws java.io.IOException

3.1.45 java.io.ObjectOutputStream.PutField

public abstract class java.io.ObjectOutputStream.PutField extends java.lang.Object	
public	**ObjectOutputStream.PutField**()
public abstract void	**put**(java.lang.String, boolean)
public abstract void	**put**(java.lang.String, char)
public abstract void	**put**(java.lang.String, byte)
public abstract void	**put**(java.lang.String, short)
public abstract void	**put**(java.lang.String, int)
public abstract void	**put**(java.lang.String, long)
public abstract void	**put**(java.lang.String, float)

All Page Within This Box

public abstract void	**put**(java.lang.String, double)
public abstract void	**put**(java.lang.String, java.lang.Object)
public abstract void	**write**(java.io.ObjectOutput) throws java.io.IOException

3.1.46 java.io.ObjectStreamClass

public class java.io.ObjectStreamClass extends java.lang.Object implements java.io.Serializable	
public static final java.io.ObjectStreamField	**NO_FIELDS**
public java.lang.Class	**forClass**()
public java.io.ObjectStreamField	**getField**(java.lang.String)
public java.io.ObjectStreamField	**getFields**()
public java.lang.String	**getName**()
public long	**getSerialVersionUID**()
public static java.io.ObjectStreamClass	**lookup**(java.lang.Class)
public java.lang.String	**toString**()

3.1.47 java.io.ObjectStreamConstants

public abstract interface java.io.ObjectStreamConstants	
public static final int	**PROTOCOL_VERSION_1**
public static final int	**PROTOCOL_VERSION_2**
public static final byte	**SC_BLOCK_DATA**
public static final byte	**SC_EXTERNALIZABLE**
public static final byte	**SC_SERIALIZABLE**
public static final byte	**SC_WRITE_METHOD**
public static final short	**STREAM_MAGIC**
public static final short	**STREAM_VERSION**
public static final java.io.SerializablePermission	**SUBCLASS_IMPLEMENTATION_PERMISSION**
public static final java.io.SerializablePermission	**SUBSTITUTION_PERMISSION**
public static final byte	**TC_ARRAY**
public static final byte	**TC_BASE**
public static final byte	**TC_BLOCKDATA**
public static final byte	**TC_BLOCKDATALONG**
public static final byte	**TC_CLASS**
public static final byte	**TC_CLASSDESC**
public static final byte	**TC_ENDBLOCKDATA**
public static final byte	**TC_EXCEPTION**
public static final byte	**TC_LONGSTRING**
public static final byte	**TC_MAX**

All Page Within This Box

public static final byte	**TC_NULL**
public static final byte	**TC_OBJECT**
public static final byte	**TC_PROXYCLASSDESC**
public static final byte	**TC_REFERENCE**
public static final byte	**TC_RESET**
public static final byte	**TC_STRING**
public static final int	**baseWireHandle**

3.1.48 java.io.ObjectStreamException

public abstract class java.io.ObjectStreamException extends java.io.IOException	
protected	**ObjectStreamException**(java.lang.String)
protected	**ObjectStreamException**()

3.1.49 java.io.ObjectStreamField

public class java.io.ObjectStreamField extends java.lang.Object implements java.lang.Comparable	
public	**ObjectStreamField**(java.lang.String, java.lang.Class)
public int	**compareTo**(java.lang.Object)
public java.lang.String	**getName**()
public int	**getOffset**()
public java.lang.Class	**getType**()
public char	**getTypeCode**()
public java.lang.String	**getTypeString**()
public boolean	**isPrimitive**()
protected void	**setOffset**(int)
public java.lang.String	**toString**()

3.1.50 java.io.OptionalDataException

public class java.io.OptionalDataException extends java.io.ObjectStreamException	
public boolean	**eof**
public int	**length**

3.1.51 java.io.OutputStream

public abstract class java.io.OutputStream extends java.lang.Object	
public	**OutputStream**()
public void	**close**() throws java.io.IOException
public void	**flush**() throws java.io.IOException
public abstract void	**write**(int) throws java.io.IOException
public void	**write**(byte[]) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException

All Page Within This Box

3.1.52 java.io.OutputStreamWriter

public class java.io.OutputStreamWriter extends java.io.Writer	
public	**OutputStreamWriter**(java.io.OutputStream, java.lang.String) throws java.io.UnsupportedEncodingException
public	**OutputStreamWriter**(java.io.OutputStream)
public void	**close**() throws java.io.IOException
public void	**flush**() throws java.io.IOException
public java.lang.String	**getEncoding**()
public void	**write**(int) throws java.io.IOException
public void	**write**(char[], int, int) throws java.io.IOException
public void	**write**(java.lang.String, int, int) throws java.io.IOException

3.1.53 java.io.PipedInputStream

public class java.io.PipedInputStream extends java.io.InputStream	
protected static final int	**PIPE_SIZE**
protected byte	**buffer**
protected int	**in**
protected int	**out**
public	**PipedInputStream**(java.io.PipedOutputStream) throws java.io.IOException
public	**PipedInputStream**()
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public void	**connect**(java.io.PipedOutputStream) throws java.io.IOException
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
protected void	**receive**(int) throws java.io.IOException

3.1.54 java.io.PipedOutputStream

public class java.io.PipedOutputStream extends java.io.OutputStream	
public	**PipedOutputStream**(java.io.PipedInputStream) throws java.io.IOException
public	**PipedOutputStream**()
public void	**close**() throws java.io.IOException
public void	**connect**(java.io.PipedInputStream) throws java.io.IOException
public void	**flush**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException

3.1.55 java.io.PipedReader

public class java.io.PipedReader extends java.io.Reader	
public	**PipedReader**(java.io.PipedWriter) throws java.io.IOException
public	**PipedReader**()

All Page Within This Box

public void	**close**() throws java.io.IOException
public void	**connect**(java.io.PipedWriter) throws java.io.IOException
public int	**read**() throws java.io.IOException
public int	**read**(char[], int, int) throws java.io.IOException
public boolean	**ready**() throws java.io.IOException

3.1.56 java.io.PipedWriter

public class java.io.PipedWriter extends java.io.Writer	
public	**PipedWriter**(java.io.PipedReader) throws java.io.IOException
public	**PipedWriter**()
public void	**close**() throws java.io.IOException
public void	**connect**(java.io.PipedReader) throws java.io.IOException
public void	**flush**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(char[], int, int) throws java.io.IOException

3.1.57 java.io.PrintStream

public class java.io.PrintStream extends java.io.FilterOutputStream	
public	**PrintStream**(java.io.OutputStream)
public	**PrintStream**(java.io.OutputStream, boolean)
public boolean	**checkError**()
public void	**close**()
public void	**flush**()
public void	**print**(boolean)
public void	**print**(char)
public void	**print**(int)
public void	**print**(long)
public void	**print**(float)
public void	**print**(double)
public void	**print**(char[])
public void	**print**(java.lang.String)
public void	**print**(java.lang.Object)
public void	**println**()
public void	**println**(boolean)
public void	**println**(char)
public void	**println**(int)
public void	**println**(long)
public void	**println**(float)
public void	**println**(double)
public void	**println**(char[])

All Page Within This Box

public void	**println**(java.lang.String)
public void	**println**(java.lang.Object)
protected void	**setError**()
public void	**write**(int)
public void	**write**(byte[], int, int)

3.1.58 java.io.PrintWriter

public class java.io.PrintWriter extends java.io.Writer	
protected java.io.Writer	**out**
public	**PrintWriter**(java.io.Writer)
public	**PrintWriter**(java.io.Writer, boolean)
public	**PrintWriter**(java.io.OutputStream)
public	**PrintWriter**(java.io.OutputStream, boolean)
public boolean	**checkError**()
public void	**close**()
public void	**flush**()
public void	**print**(boolean)
public void	**print**(char)
public void	**print**(int)
public void	**print**(long)
public void	**print**(float)
public void	**print**(double)
public void	**print**(char[])
public void	**print**(java.lang.String)
public void	**print**(java.lang.Object)
public void	**println**()
public void	**println**(boolean)
public void	**println**(char)
public void	**println**(int)
public void	**println**(long)
public void	**println**(float)
public void	**println**(double)
public void	**println**(char[])
public void	**println**(java.lang.String)
public void	**println**(java.lang.Object)
protected void	**setError**()
public void	**write**(int)
public void	**write**(char[], int, int)
public void	**write**(char[])

public void	**write**(java.lang.String, int, int)
public void	**write**(java.lang.String)

3.1.59 java.io.PushbackInputStream

public class java.io.PushbackInputStream extends java.io.FilterInputStream	
protected byte	**buf**
protected int	**pos**
public	**PushbackInputStream**(java.io.InputStream, int)
public	**PushbackInputStream**(java.io.InputStream)
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public long	**skip**(long) throws java.io.IOException
public void	**unread**(int) throws java.io.IOException
public void	**unread**(byte[], int, int) throws java.io.IOException
public void	**unread**(byte[]) throws java.io.IOException

3.1.60 java.io.PushbackReader

public class java.io.PushbackReader extends java.io.FilterReader	
public	**PushbackReader**(java.io.Reader, int)
public	**PushbackReader**(java.io.Reader)
public void	**close**() throws java.io.IOException
public void	**mark**(int) throws java.io.IOException
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(char[], int, int) throws java.io.IOException
public boolean	**ready**() throws java.io.IOException
public void	**reset**() throws java.io.IOException
public void	**unread**(int) throws java.io.IOException
public void	**unread**(char[], int, int) throws java.io.IOException
public void	**unread**(char[]) throws java.io.IOException

3.1.61 java.io.RandomAccessFile

public class java.io.RandomAccessFile extends java.lang.Object implements java.io.DataOutput, java.io.DataInput	
public	**RandomAccessFile**(java.lang.String, java.lang.String) throws java.io.FileNotFoundException
public	**RandomAccessFile**(java.io.File, java.lang.String) throws java.io.FileNotFoundException

All Page Within This Box

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public void	**close**() throws java.io.IOException
public final java.io.FileDescriptor	**getFD**() throws java.io.IOException
public long	**getFilePointer**() throws java.io.IOException
public long	**length**() throws java.io.IOException
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public int	**read**(byte[]) throws java.io.IOException
public final boolean	**readBoolean**() throws java.io.IOException
public final byte	**readByte**() throws java.io.IOException
public final char	**readChar**() throws java.io.IOException
public final double	**readDouble**() throws java.io.IOException
public final float	**readFloat**() throws java.io.IOException
public final void	**readFully**(byte[]) throws java.io.IOException
public final void	**readFully**(byte[], int, int) throws java.io.IOException
public final int	**readInt**() throws java.io.IOException
public final java.lang.String	**readLine**() throws java.io.IOException
public final long	**readLong**() throws java.io.IOException
public final short	**readShort**() throws java.io.IOException
public final java.lang.String	**readUTF**() throws java.io.IOException
public final int	**readUnsignedByte**() throws java.io.IOException
public final int	**readUnsignedShort**() throws java.io.IOException
public void	**seek**(long) throws java.io.IOException
public void	**setLength**(long) throws java.io.IOException
public int	**skipBytes**(int) throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[]) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException
public final void	**writeBoolean**(boolean) throws java.io.IOException
public final void	**writeByte**(int) throws java.io.IOException
public final void	**writeBytes**(java.lang.String) throws java.io.IOException
public final void	**writeChar**(int) throws java.io.IOException
public final void	**writeChars**(java.lang.String) throws java.io.IOException
public final void	**writeDouble**(double) throws java.io.IOException
public final void	**writeFloat**(float) throws java.io.IOException
public final void	**writeInt**(int) throws java.io.IOException
public final void	**writeLong**(long) throws java.io.IOException
public final void	**writeShort**(int) throws java.io.IOException
public final void	**writeUTF**(java.lang.String) throws java.io.IOException

All Page Within This Box

3.1.62 java.io.Reader

public abstract class java.io.Reader extends java.lang.Object	
protected java.lang.Object	**lock**
protected	**Reader**()
protected	**Reader**(java.lang.Object)
public abstract void	**close**() throws java.io.IOException
public void	**mark**(int) throws java.io.IOException
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(char[]) throws java.io.IOException
public abstract int	**read**(char[], int, int) throws java.io.IOException
public boolean	**ready**() throws java.io.IOException
public void	**reset**() throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.63 java.io.SequenceInputStream

public class java.io.SequenceInputStream extends java.io.InputStream	
public	**SequenceInputStream**(java.util.Enumeration)
public	**SequenceInputStream**(java.io.InputStream, java.io.InputStream)
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException

3.1.64 java.io.Serializable

public abstract interface java.io.Serializable

3.1.65 java.io.SerializablePermission

public final class java.io.SerializablePermission extends java.security.BasicPermission	
public	**SerializablePermission**(java.lang.String)
public	**SerializablePermission**(java.lang.String, java.lang.String)

3.1.66 java.io.StreamCorruptedException

public class java.io.StreamCorruptedException extends java.io.ObjectStreamException	
public	**StreamCorruptedException**(java.lang.String)
public	**StreamCorruptedException**()

3.1.67 java.io.StreamTokenizer

public class java.io.StreamTokenizer extends java.lang.Object	
public static final int	**TT_EOF**
public static final int	**TT_EOL**

All Page Within This Box

public static final int	**TT_NUMBER**
public static final int	**TT_WORD**
public double	**nval**
public java.lang.String	**sval**
public int	**ttype**
public	**StreamTokenizer**(java.io.Reader)
public void	**commentChar**(int)
public void	**eolIsSignificant**(boolean)
public int	**lineno**()
public void	**lowerCaseMode**(boolean)
public int	**nextToken**() throws java.io.IOException
public void	**ordinaryChar**(int)
public void	**ordinaryChars**(int, int)
public void	**parseNumbers**()
public void	**pushBack**()
public void	**quoteChar**(int)
public void	**resetSyntax**()
public void	**slashSlashComments**(boolean)
public void	**slashStarComments**(boolean)
public java.lang.String	**toString**()
public void	**whitespaceChars**(int, int)
public void	**wordChars**(int, int)

3.1.68 java.io.StringReader

public class java.io.StringReader extends java.io.Reader	
public	**StringReader**(java.lang.String)
public void	**close**()
public void	**mark**(int) throws java.io.IOException
public boolean	**markSupported**()
public int	**read**() throws java.io.IOException
public int	**read**(char[], int, int) throws java.io.IOException
public boolean	**ready**() throws java.io.IOException
public void	**reset**() throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.1.69 java.io.StringWriter

public class java.io.StringWriter extends java.io.Writer	
public	**StringWriter**()
public	**StringWriter**(int)
public void	**close**() throws java.io.IOException

All Page Within This Box

public void	**flush**()
public java.lang.StringBuffer	**getBuffer**()
public java.lang.String	**toString**()
public void	**write**(int)
public void	**write**(char[], int, int)
public void	**write**(java.lang.String)
public void	**write**(java.lang.String, int, int)

3.1.70 java.io.SyncFailedException

public class java.io.SyncFailedException extends java.io.IOException	
public	**SyncFailedException**(java.lang.String)

3.1.71 java.io.UTFDataFormatException

public class java.io.UTFDataFormatException extends java.io.IOException	
public	**UTFDataFormatException**()
public	**UTFDataFormatException**(java.lang.String)

3.1.72 java.io.UnsupportedEncodingException

public class java.io.UnsupportedEncodingException extends java.io.IOException	
public	**UnsupportedEncodingException**()
public	**UnsupportedEncodingException**(java.lang.String)

3.1.73 java.io.WriteAbortedException

public class java.io.WriteAbortedException extends java.io.ObjectStreamException	
public java.lang.Exception	**detail**
public	**WriteAbortedException**(java.lang.String, java.lang.Exception)
public java.lang.String	**getMessage**()

3.1.74 java.io.Writer

public abstract class java.io.Writer extends java.lang.Object	
protected java.lang.Object	**lock**
protected	**Writer**()
protected	**Writer**(java.lang.Object)
public abstract void	**close**() throws java.io.IOException
public abstract void	**flush**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(char[]) throws java.io.IOException
public abstract void	**write**(char[], int, int) throws java.io.IOException
public void	**write**(java.lang.String) throws java.io.IOException
public void	**write**(java.lang.String, int, int) throws java.io.IOException

All Page Within This Box

3.2 Package java.lang

3.2.1 java.lang.AbstractMethodError

public class java.lang.AbstractMethodError extends java.lang.IncompatibleClassChangeError	
public	**AbstractMethodError**()
public	**AbstractMethodError**(java.lang.String)

3.2.2 java.lang.ArithmeticException

public class java.lang.ArithmeticException extends java.lang.RuntimeException	
public	**ArithmeticException**()
public	**ArithmeticException**(java.lang.String)

3.2.3 java.lang.ArrayIndexOutOfBoundsException

public class java.lang.ArrayIndexOutOfBoundsException extends java.lang.IndexOutOfBoundsException	
public	**ArrayIndexOutOfBoundsException**()
public	**ArrayIndexOutOfBoundsException**(int)
public	**ArrayIndexOutOfBoundsException**(java.lang.String)

3.2.4 java.lang.ArrayStoreException

public class java.lang.ArrayStoreException extends java.lang.RuntimeException	
public	**ArrayStoreException**()
public	**ArrayStoreException**(java.lang.String)

3.2.5 java.lang.Boolean

public final class java.lang.Boolean extends java.lang.Object implements java.io.Serializable	
public static final java.lang.Boolean	**FALSE**
public static final java.lang.Boolean	**TRUE**
public static final java.lang.Class	**TYPE**
public	**Boolean**(boolean)
public	**Boolean**(java.lang.String)
public boolean	**booleanValue**()
public boolean	**equals**(java.lang.Object)
public static boolean	**getBoolean**(java.lang.String)
public int	**hashCode**()
public java.lang.String	**toString**()
public static java.lang.Boolean	**valueOf**(java.lang.String)

3.2.6 java.lang.Byte

public final class java.lang.Byte extends java.lang.Number implements java.lang.Comparable	
public static final byte	**MAX_VALUE**

All Page Within This Box

public static final byte	**MIN_VALUE**
public static final java.lang.Class	**TYPE**
public	**Byte**(byte)
public	**Byte**(java.lang.String) throws java.lang.NumberFormatException
public byte	**byteValue**()
public int	**compareTo**(java.lang.Byte)
public int	**compareTo**(java.lang.Object)
public static java.lang.Byte	**decode**(java.lang.String) throws java.lang.NumberFormatException
public double	**doubleValue**()
public boolean	**equals**(java.lang.Object)
public float	**floatValue**()
public int	**hashCode**()
public int	**intValue**()
public long	**longValue**()
public static byte	**parseByte**(java.lang.String) throws java.lang.NumberFormatException
public static byte	**parseByte**(java.lang.String, int) throws java.lang.NumberFormatException
public short	**shortValue**()
public static java.lang.String	**toString**(byte)
public java.lang.String	**toString**()
public static java.lang.Byte	**valueOf**(java.lang.String, int) throws java.lang.NumberFormatException
public static java.lang.Byte	**valueOf**(java.lang.String) throws java.lang.NumberFormatException

3.2.7 java.lang.Character

public final class java.lang.Character extends java.lang.Object implements java.io.Serializable, java.lang.Comparable	
public static final byte	**COMBINING_SPACING_MARK**
public static final byte	**CONNECTOR_PUNCTUATION**
public static final byte	**CONTROL**
public static final byte	**CURRENCY_SYMBOL**
public static final byte	**DASH_PUNCTUATION**
public static final byte	**DECIMAL_DIGIT_NUMBER**
public static final byte	**ENCLOSING_MARK**
public static final byte	**END_PUNCTUATION**
public static final byte	**FORMAT**
public static final byte	**LETTER_NUMBER**
public static final byte	**LINE_SEPARATOR**
public static final byte	**LOWERCASE_LETTER**
public static final byte	**MATH_SYMBOL**
public static final int	**MAX_RADIX**
public static final char	**MAX_VALUE**

All Page Within This Box

OSGi

public static final int	**MIN_RADIX**
public static final char	**MIN_VALUE**
public static final byte	**MODIFIER_LETTER**
public static final byte	**MODIFIER_SYMBOL**
public static final byte	**NON_SPACING_MARK**
public static final byte	**OTHER_LETTER**
public static final byte	**OTHER_NUMBER**
public static final byte	**OTHER_PUNCTUATION**
public static final byte	**OTHER_SYMBOL**
public static final byte	**PARAGRAPH_SEPARATOR**
public static final byte	**PRIVATE_USE**
public static final byte	**SPACE_SEPARATOR**
public static final byte	**START_PUNCTUATION**
public static final byte	**SURROGATE**
public static final byte	**TITLECASE_LETTER**
public static final java.lang.Class	**TYPE**
public static final byte	**UNASSIGNED**
public static final byte	**UPPERCASE_LETTER**
public	**Character**(char)
public char	**charValue**()
public int	**compareTo**(java.lang.Character)
public int	**compareTo**(java.lang.Object)
public static int	**digit**(char, int)
public boolean	**equals**(java.lang.Object)
public static char	**forDigit**(int, int)
public static int	**getNumericValue**(char)
public static int	**getType**(char)
public int	**hashCode**()
public static boolean	**isDefined**(char)
public static boolean	**isDigit**(char)
public static boolean	**isISOControl**(char)
public static boolean	**isIdentifierIgnorable**(char)
public static boolean	**isJavaIdentifierPart**(char)
public static boolean	**isJavaIdentifierStart**(char)
public static boolean	**isLetter**(char)
public static boolean	**isLetterOrDigit**(char)
public static boolean	**isLowerCase**(char)
public static boolean	**isSpaceChar**(char)
public static boolean	**isTitleCase**(char)

All Page Within This Box

public static boolean	isUnicodeIdentifierPart(char)
public static boolean	isUnicodeIdentifierStart(char)
public static boolean	isUpperCase (char)
public static boolean	isWhitespace (char)
public static char	toLowerCase (char)
public java.lang.String	toString()
public static char	toTitleCase (char)
public static char	toUpperCase (char)

3.2.8 java.lang.Character.Subset

public class java.lang.Character.Subset extends java.lang.Object	
protected	Character.Subset(java.lang.String)
public final boolean	equals(java.lang.Object)
public final int	hashCode()
public final java.lang.String	toString()

3.2.9 java.lang.Character.UnicodeBlock

public final class java.lang.Character.UnicodeBlock extends java.lang.Character.Subset	
public static final java.lang.Character.UnicodeBlock	ALPHABETIC_PRESENTATION_FORMS
public static final java.lang.Character.UnicodeBlock	ARABIC
public static final java.lang.Character.UnicodeBlock	ARABIC_PRESENTATION_FORMS_A
public static final java.lang.Character.UnicodeBlock	ARABIC_PRESENTATION_FORMS_B
public static final java.lang.Character.UnicodeBlock	ARMENIAN
public static final java.lang.Character.UnicodeBlock	ARROWS
public static final java.lang.Character.UnicodeBlock	BASIC_LATIN
public static final java.lang.Character.UnicodeBlock	BENGALI
public static final java.lang.Character.UnicodeBlock	BLOCK_ELEMENTS
public static final java.lang.Character.UnicodeBlock	BOPOMOFO
public static final java.lang.Character.UnicodeBlock	BOX_DRAWING
public static final java.lang.Character.UnicodeBlock	CJK_COMPATIBILITY
public static final	CJK_COMPATIBILITY_FORMS

All Page Within This Box

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java.lang.Character.UnicodeBlock	
public static final java.lang.Character.UnicodeBlock	**CJK_COMPATIBILITY_IDEOGRAPHS**
public static final java.lang.Character.UnicodeBlock	**CJK_SYMBOLS_AND_PUNCTUATION**
public static final java.lang.Character.UnicodeBlock	**CJK_UNIFIED_IDEOGRAPHS**
public static final java.lang.Character.UnicodeBlock	**COMBINING_DIACRITICAL_MARKS**
public static final java.lang.Character.UnicodeBlock	**COMBINING_HALF_MARKS**
public static final java.lang.Character.UnicodeBlock	**COMBINING_MARKS_FOR_SYMBOLS**
public static final java.lang.Character.UnicodeBlock	**CONTROL_PICTURES**
public static final java.lang.Character.UnicodeBlock	**CURRENCY_SYMBOLS**
public static final java.lang.Character.UnicodeBlock	**CYRILLIC**
public static final java.lang.Character.UnicodeBlock	**DEVANAGARI**
public static final java.lang.Character.UnicodeBlock	**DINGBATS**
public static final java.lang.Character.UnicodeBlock	**ENCLOSED_ALPHANUMERICS**
public static final java.lang.Character.UnicodeBlock	**ENCLOSED_CJK_LETTERS_AND_MONTHS**
public static final java.lang.Character.UnicodeBlock	**GENERAL_PUNCTUATION**
public static final java.lang.Character.UnicodeBlock	**GEOMETRIC_SHAPES**
public static final java.lang.Character.UnicodeBlock	**GEORGIAN**
public static final java.lang.Character.UnicodeBlock	**GREEK**
public static final java.lang.Character.UnicodeBlock	**GREEK_EXTENDED**
public static final java.lang.Character.UnicodeBlock	**GUJARATI**
public static final java.lang.Character.UnicodeBlock	**GURMUKHI**
public static final java.lang.Character.UnicodeBlock	**HALFWIDTH_AND_FULLWIDTH_FORMS**
public static final java.lang.Character.UnicodeBlock	**HANGUL_COMPATIBILITY_JAMO**

All Page Within This Box

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public static final java.lang.Character.UnicodeBlock	**HANGUL_JAMO**
public static final java.lang.Character.UnicodeBlock	**HANGUL_SYLLABLES**
public static final java.lang.Character.UnicodeBlock	**HEBREW**
public static final java.lang.Character.UnicodeBlock	**HIRAGANA**
public static final java.lang.Character.UnicodeBlock	**IPA_EXTENSIONS**
public static final java.lang.Character.UnicodeBlock	**KANBUN**
public static final java.lang.Character.UnicodeBlock	**KANNADA**
public static final java.lang.Character.UnicodeBlock	**KATAKANA**
public static final java.lang.Character.UnicodeBlock	**LAO**
public static final java.lang.Character.UnicodeBlock	**LATIN_1_SUPPLEMENT**
public static final java.lang.Character.UnicodeBlock	**LATIN_EXTENDED_A**
public static final java.lang.Character.UnicodeBlock	**LATIN_EXTENDED_ADDITIONAL**
public static final java.lang.Character.UnicodeBlock	**LATIN_EXTENDED_B**
public static final java.lang.Character.UnicodeBlock	**LETTERLIKE_SYMBOLS**
public static final java.lang.Character.UnicodeBlock	**MALAYALAM**
public static final java.lang.Character.UnicodeBlock	**MATHEMATICAL_OPERATORS**
public static final java.lang.Character.UnicodeBlock	**MISCELLANEOUS_SYMBOLS**
public static final java.lang.Character.UnicodeBlock	**MISCELLANEOUS_TECHNICAL**
public static final java.lang.Character.UnicodeBlock	**NUMBER_FORMS**
public static final java.lang.Character.UnicodeBlock	**OPTICAL_CHARACTER_RECOGNITION**
public static final java.lang.Character.UnicodeBlock	**ORIYA**
public static final java.lang.Character.UnicodeBlock	**PRIVATE_USE_AREA**
public static final	**SMALL_FORM_VARIANTS**

java.lang.Character.UnicodeBlock	
public static final java.lang.Character.UnicodeBlock	**SPACING_MODIFIER_LETTERS**
public static final java.lang.Character.UnicodeBlock	**SPECIALS**
public static final java.lang.Character.UnicodeBlock	**SUPERSCRIPTS_AND_SUBSCRIPTS**
public static final java.lang.Character.UnicodeBlock	**SURROGATES_AREA**
public static final java.lang.Character.UnicodeBlock	**TAMIL**
public static final java.lang.Character.UnicodeBlock	**TELUGU**
public static final java.lang.Character.UnicodeBlock	**THAI**
public static final java.lang.Character.UnicodeBlock	**TIBETAN**
public static java.lang.Character.UnicodeBlock	**of**(char)

3.2.10 java.lang.Class

public final class java.lang.Class extends java.lang.Object implements java.io.Serializable	
public static java.lang.Class	**forName**(java.lang.String) throws java.lang.ClassNotFoundException
public static java.lang.Class	**forName**(java.lang.String, boolean, java.lang.ClassLoader) throws java.lang.ClassNotFoundException
public java.lang.ClassLoader	**getClassLoader**()
public java.lang.Class	**getClasses**()
public java.lang.Class	**getComponentType**()
public java.lang.reflect.Constructor	**getConstructor**(java.lang.Class[]) throws java.lang.NoSuchMethodException, java.lang.SecurityException
public java.lang.reflect.Constructor	**getConstructors**() throws java.lang.SecurityException
public java.lang.Class	**getDeclaredClasses**() throws java.lang.SecurityException
public java.lang.reflect.Constructor	**getDeclaredConstructor**(java.lang.Class[]) throws java.lang.NoSuchMethodException, java.lang.SecurityException
public java.lang.reflect.Constructor	**getDeclaredConstructors**() throws java.lang.SecurityException
public java.lang.reflect.Field	**getDeclaredField**(java.lang.String) throws java.lang.NoSuchFieldException, java.lang.SecurityException
public java.lang.reflect.Field	**getDeclaredFields**() throws java.lang.SecurityException
public java.lang.reflect.Method	**getDeclaredMethod**(java.lang.String, java.lang.Class[]) throws java.lang.NoSuchMethodException, java.lang.SecurityException
public java.lang.reflect.Method	**getDeclaredMethods**() throws java.lang.SecurityException
public java.lang.Class	**getDeclaringClass**()

All Page Within This Box

public java.lang.reflect.Field	**getField**(java.lang.String) throws java.lang.NoSuchFieldException, java.lang.SecurityException
public java.lang.reflect.Field	**getFields**() throws java.lang.SecurityException
public java.lang.Class	**getInterfaces**()
public java.lang.reflect.Method	**getMethod**(java.lang.String, java.lang.Class[]) throws java.lang.NoSuchMethodException, java.lang.SecurityException
public java.lang.reflect.Method	**getMethods**() throws java.lang.SecurityException
public int	**getModifiers**()
public java.lang.String	**getName**()
public java.lang.Package	**getPackage**()
public java.security.ProtectionDomain	**getProtectionDomain**()
public java.net.URL	**getResource**(java.lang.String)
public java.io.InputStream	**getResourceAsStream**(java.lang.String)
public java.lang.Object	**getSigners**()
public java.lang.Class	**getSuperclass**()
public boolean	**isArray**()
public boolean	**isAssignableFrom**(java.lang.Class)
public boolean	**isInstance**(java.lang.Object)
public boolean	**isInterface**()
public boolean	**isPrimitive**()
public java.lang.Object	**newInstance**() throws java.lang.InstantiationException, java.lang.IllegalAccessException
public java.lang.String	**toString**()

3.2.11 java.lang.ClassCastException

public class java.lang.ClassCastException extends java.lang.RuntimeException	
public	**ClassCastException**()
public	**ClassCastException**(java.lang.String)

3.2.12 java.lang.ClassCircularityError

public class java.lang.ClassCircularityError extends java.lang.LinkageError	
public	**ClassCircularityError**()
public	**ClassCircularityError**(java.lang.String)

3.2.13 java.lang.ClassFormatError

public class java.lang.ClassFormatError extends java.lang.LinkageError	
public	**ClassFormatError**()
public	**ClassFormatError**(java.lang.String)

3.2.14 java.lang.ClassLoader

public abstract class java.lang.ClassLoader extends java.lang.Object	

All Page Within This Box

protected	**ClassLoader**(java.lang.ClassLoader)
protected	**ClassLoader**()
protected final java.lang.Class	**defineClass**(java.lang.String, byte[], int, int) throws java.lang.ClassFormatError
protected final java.lang.Class	**defineClass**(java.lang.String, byte[], int, int, java.security.ProtectionDomain) throws java.lang.ClassFormatError
protected java.lang.Package	**definePackage**(java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.net.URL) throws java.lang.IllegalArgumentException
protected java.lang.Class	**findClass**(java.lang.String) throws java.lang.ClassNotFoundException
protected java.lang.String	**findLibrary**(java.lang.String)
protected final java.lang.Class	**findLoadedClass**(java.lang.String)
protected java.net.URL	**findResource**(java.lang.String)
protected java.util.Enumeration	**findResources**(java.lang.String) throws java.io.IOException
protected final java.lang.Class	**findSystemClass**(java.lang.String) throws java.lang.ClassNotFoundException
protected java.lang.Package	**getPackage**(java.lang.String)
protected java.lang.Package	**getPackages**()
public final java.lang.ClassLoader	**getParent**()
public java.net.URL	**getResource**(java.lang.String)
public java.io.InputStream	**getResourceAsStream**(java.lang.String)
public final java.util.Enumeration	**getResources**(java.lang.String) throws java.io.IOException
public static java.lang.ClassLoader	**getSystemClassLoader**()
public static java.net.URL	**getSystemResource**(java.lang.String)
public static java.io.InputStream	**getSystemResourceAsStream**(java.lang.String)
public static java.util.Enumeration	**getSystemResources**(java.lang.String) throws java.io.IOException
public java.lang.Class	**loadClass**(java.lang.String) throws java.lang.ClassNotFoundException
protected java.lang.Class	**loadClass**(java.lang.String, boolean) throws java.lang.ClassNotFoundException
protected final void	**resolveClass**(java.lang.Class)
protected final void	**setSigners**(java.lang.Class, java.lang.Object[])

3.2.15 java.lang.ClassNotFoundException

public class java.lang.ClassNotFoundException extends java.lang.Exception	
public	**ClassNotFoundException**()
public	**ClassNotFoundException**(java.lang.String)
public	**ClassNotFoundException**(java.lang.String, java.lang.Throwable)
public java.lang.Throwable	**getException**()
public void	**printStackTrace**()
public void	**printStackTrace**(java.io.PrintStream)
public void	**printStackTrace**(java.io.PrintWriter)

All Page Within This Box

3.2.16 java.lang.CloneNotSupportedException

public class java.lang.CloneNotSupportedException extends java.lang.Exception	
public	**CloneNotSupportedException**()
public	**CloneNotSupportedException**(java.lang.String)

3.2.17 java.lang.Cloneable

public abstract interface java.lang.Cloneable

3.2.18 java.lang.Comparable

public abstract interface java.lang.Comparable	
public int	**compareTo**(java.lang.Object)

3.2.19 java.lang.Compiler

public final class java.lang.Compiler extends java.lang.Object	
public static java.lang.Object	**command**(java.lang.Object)
public static boolean	**compileClass**(java.lang.Class)
public static boolean	**compileClasses**(java.lang.String)
public static void	**disable**()
public static void	**enable**()

3.2.20 java.lang.Double

public final class java.lang.Double extends java.lang.Number implements java.lang.Comparable	
public static final double	**MAX_VALUE**
public static final double	**MIN_VALUE**
public static final double	**NEGATIVE_INFINITY**
public static final double	**NaN**
public static final double	**POSITIVE_INFINITY**
public static final java.lang.Class	**TYPE**
public	**Double**(double)
public	**Double**(java.lang.String) throws java.lang.NumberFormatException
public byte	**byteValue**()
public int	**compareTo**(java.lang.Double)
public int	**compareTo**(java.lang.Object)
public static long	**doubleToLongBits**(double)
public static long	**doubleToRawLongBits**(double)
public double	**doubleValue**()
public boolean	**equals**(java.lang.Object)
public float	**floatValue**()
public int	**hashCode**()
public int	**intValue**()
public static boolean	**isInfinite**(double)

public boolean	**isInfinite**()	
public static boolean	**isNaN**(double)	
public boolean	**isNaN**()	
public static double	**longBitsToDouble**(long)	
public long	**longValue**()	
public static double	**parseDouble**(java.lang.String) throws java.lang.NumberFormatException	
public short	**shortValue**()	
public static java.lang.String	**toString**(double)	
public java.lang.String	**toString**()	
public static java.lang.Double	**valueOf**(java.lang.String) throws java.lang.NumberFormatException	

3.2.21 java.lang.Error

public class java.lang.Error extends java.lang.Throwable	
public	**Error**()
public	**Error**(java.lang.String)

3.2.22 java.lang.Exception

public class java.lang.Exception extends java.lang.Throwable	
public	**Exception**()
public	**Exception**(java.lang.String)

3.2.23 java.lang.ExceptionInInitializerError

public class java.lang.ExceptionInInitializerError extends java.lang.LinkageError	
public	**ExceptionInInitializerError**()
public	**ExceptionInInitializerError**(java.lang.Throwable)
public	**ExceptionInInitializerError**(java.lang.String)
public java.lang.Throwable	**getException**()
public void	**printStackTrace**()
public void	**printStackTrace**(java.io.PrintStream)
public void	**printStackTrace**(java.io.PrintWriter)

3.2.24 java.lang.Float

public final class java.lang.Float extends java.lang.Number implements java.lang.Comparable	
public static final float	**MAX_VALUE**
public static final float	**MIN_VALUE**
public static final float	**NEGATIVE_INFINITY**
public static final float	**NaN**
public static final float	**POSITIVE_INFINITY**
public static final java.lang.Class	**TYPE**
public	**Float**(float)
public	**Float**(double)

public	**Float**(java.lang.String) throws java.lang.NumberFormatException
public byte	**byteValue**()
public int	**compareTo**(java.lang.Float)
public int	**compareTo**(java.lang.Object)
public double	**doubleValue**()
public boolean	**equals**(java.lang.Object)
public static int	**floatToIntBits**(float)
public static int	**floatToRawIntBits**(float)
public float	**floatValue**()
public int	**hashCode**()
public static float	**intBitsToFloat**(int)
public int	**intValue**()
public static boolean	**isInfinite**(float)
public boolean	**isInfinite**()
public static boolean	**isNaN**(float)
public boolean	**isNaN**()
public long	**longValue**()
public static float	**parseFloat**(java.lang.String) throws java.lang.NumberFormatException
public short	**shortValue**()
public static java.lang.String	**toString**(float)
public java.lang.String	**toString**()
public static java.lang.Float	**valueOf**(java.lang.String) throws java.lang.NumberFormatException

3.2.25 java.lang.IllegalAccessError

public class java.lang.IllegalAccessError extends java.lang.IncompatibleClassChangeError	
public	**IllegalAccessError**()
public	**IllegalAccessError**(java.lang.String)

3.2.26 java.lang.IllegalAccessException

public class java.lang.IllegalAccessException extends java.lang.Exception	
public	**IllegalAccessException**()
public	**IllegalAccessException**(java.lang.String)

3.2.27 java.lang.IllegalArgumentException

public class java.lang.IllegalArgumentException extends java.lang.RuntimeException	
public	**IllegalArgumentException**()
public	**IllegalArgumentException**(java.lang.String)

3.2.28 java.lang.IllegalMonitorStateException

public class java.lang.IllegalMonitorStateException extends java.lang.RuntimeException	
public	**IllegalMonitorStateException**()

All Page Within This Box

OSGi

public	**IllegalMonitorStateException**(java.lang.String)

3.2.29 java.lang.IllegalStateException

public class java.lang.IllegalStateException extends java.lang.RuntimeException	
public	**IllegalStateException**()
public	**IllegalStateException**(java.lang.String)

3.2.30 java.lang.IllegalThreadStateException

public class java.lang.IllegalThreadStateException extends java.lang.IllegalArgumentException	
public	**IllegalThreadStateException**()
public	**IllegalThreadStateException**(java.lang.String)

3.2.31 java.lang.IncompatibleClassChangeError

public class java.lang.IncompatibleClassChangeError extends java.lang.LinkageError	
public	**IncompatibleClassChangeError**()
public	**IncompatibleClassChangeError**(java.lang.String)

3.2.32 java.lang.IndexOutOfBoundsException

public class java.lang.IndexOutOfBoundsException extends java.lang.RuntimeException	
public	**IndexOutOfBoundsException**()
public	**IndexOutOfBoundsException**(java.lang.String)

3.2.33 java.lang.InheritableThreadLocal

public class java.lang.InheritableThreadLocal extends java.lang.ThreadLocal	
public	**InheritableThreadLocal**()
protected java.lang.Object	**childValue**(java.lang.Object)
public java.lang.Object	**get**()
public void	**set**(java.lang.Object)

3.2.34 java.lang.InstantiationError

public class java.lang.InstantiationError extends java.lang.IncompatibleClassChangeError	
public	**InstantiationError**()
public	**InstantiationError**(java.lang.String)

3.2.35 java.lang.InstantiationException

public class java.lang.InstantiationException extends java.lang.Exception	
public	**InstantiationException**()
public	**InstantiationException**(java.lang.String)

3.2.36 java.lang.Integer

public final class java.lang.Integer extends java.lang.Number implements java.lang.Comparable	
public static final int	**MAX_VALUE**

All Page Within This Box

public static final int	**MIN_VALUE**
public static final java.lang.Class	**TYPE**
public	**Integer**(int)
public	**Integer**(java.lang.String) throws java.lang.NumberFormatException
public byte	**byteValue**()
public int	**compareTo**(java.lang.Integer)
public int	**compareTo**(java.lang.Object)
public static java.lang.Integer	**decode**(java.lang.String) throws java.lang.NumberFormatException
public double	**doubleValue**()
public boolean	**equals**(java.lang.Object)
public float	**floatValue**()
public static java.lang.Integer	**getInteger**(java.lang.String)
public static java.lang.Integer	**getInteger**(java.lang.String, int)
public static java.lang.Integer	**getInteger**(java.lang.String, java.lang.Integer)
public int	**hashCode**()
public int	**intValue**()
public long	**longValue**()
public static int	**parseInt**(java.lang.String, int) throws java.lang.NumberFormatException
public static int	**parseInt**(java.lang.String) throws java.lang.NumberFormatException
public short	**shortValue**()
public static java.lang.String	**toBinaryString**(int)
public static java.lang.String	**toHexString**(int)
public static java.lang.String	**toOctalString**(int)
public static java.lang.String	**toString**(int, int)
public static java.lang.String	**toString**(int)
public java.lang.String	**toString**()
public static java.lang.Integer	**valueOf**(java.lang.String, int) throws java.lang.NumberFormatException
public static java.lang.Integer	**valueOf**(java.lang.String) throws java.lang.NumberFormatException

3.2.37 java.lang.InternalError

public class java.lang.InternalError extends java.lang.VirtualMachineError	
public	**InternalError**()
public	**InternalError**(java.lang.String)

3.2.38 java.lang.InterruptedException

public class java.lang.InterruptedException extends java.lang.Exception	
public	**InterruptedException**()
public	**InterruptedException**(java.lang.String)

All Page Within This Box

3.2.39 java.lang.LinkageError

public class java.lang.LinkageError extends java.lang.Error	
public	**LinkageError**()
public	**LinkageError**(java.lang.String)

3.2.40 java.lang.Long

public final class java.lang.Long extends java.lang.Number implements java.lang.Comparable	
public static final long	**MAX_VALUE**
public static final long	**MIN_VALUE**
public static final java.lang.Class	**TYPE**
public	**Long**(long)
public	**Long**(java.lang.String) throws java.lang.NumberFormatException
public byte	**byteValue**()
public int	**compareTo**(java.lang.Long)
public int	**compareTo**(java.lang.Object)
public static java.lang.Long	**decode**(java.lang.String) throws java.lang.NumberFormatException
public double	**doubleValue**()
public boolean	**equals**(java.lang.Object)
public float	**floatValue**()
public static java.lang.Long	**getLong**(java.lang.String)
public static java.lang.Long	**getLong**(java.lang.String, long)
public static java.lang.Long	**getLong**(java.lang.String, java.lang.Long)
public int	**hashCode**()
public int	**intValue**()
public long	**longValue**()
public static long	**parseLong**(java.lang.String, int) throws java.lang.NumberFormatException
public static long	**parseLong**(java.lang.String) throws java.lang.NumberFormatException
public short	**shortValue**()
public static java.lang.String	**toBinaryString**(long)
public static java.lang.String	**toHexString**(long)
public static java.lang.String	**toOctalString**(long)
public static java.lang.String	**toString**(long, int)
public static java.lang.String	**toString**(long)
public java.lang.String	**toString**()
public static java.lang.Long	**valueOf**(java.lang.String, int) throws java.lang.NumberFormatException
public static java.lang.Long	**valueOf**(java.lang.String) throws java.lang.NumberFormatException

3.2.41 java.lang.Math

public final class java.lang.Math extends java.lang.Object	
public static final double	**E**

All Page Within This Box

public static final double	**PI**
public static double	**IEEEremainder**(double, double)
public static int	**abs**(int)
public static long	**abs**(long)
public static float	**abs**(float)
public static double	**abs**(double)
public static double	**acos**(double)
public static double	**asin**(double)
public static double	**atan**(double)
public static double	**atan2**(double, double)
public static double	**ceil**(double)
public static double	**cos**(double)
public static double	**exp**(double)
public static double	**floor**(double)
public static double	**log**(double)
public static int	**max**(int, int)
public static long	**max**(long, long)
public static float	**max**(float, float)
public static double	**max**(double, double)
public static int	**min**(int, int)
public static long	**min**(long, long)
public static float	**min**(float, float)
public static double	**min**(double, double)
public static double	**pow**(double, double)
public static double	**random**()
public static double	**rint**(double)
public static int	**round**(float)
public static long	**round**(double)
public static double	**sin**(double)
public static double	**sqrt**(double)
public static double	**tan**(double)
public static double	**toDegrees**(double)
public static double	**toRadians**(double)

3.2.42 java.lang.NegativeArraySizeException

public class java.lang.NegativeArraySizeException extends java.lang.RuntimeException	
public	**NegativeArraySizeException**()
public	**NegativeArraySizeException**(java.lang.String)

All Page Within This Box

3.2.43 java.lang.NoClassDefFoundError

public class java.lang.NoClassDefFoundError extends java.lang.LinkageError	
public	**NoClassDefFoundError**()
public	**NoClassDefFoundError**(java.lang.String)

3.2.44 java.lang.NoSuchFieldError

public class java.lang.NoSuchFieldError extends java.lang.IncompatibleClassChangeError	
public	**NoSuchFieldError**()
public	**NoSuchFieldError**(java.lang.String)

3.2.45 java.lang.NoSuchFieldException

public class java.lang.NoSuchFieldException extends java.lang.Exception	
public	**NoSuchFieldException**()
public	**NoSuchFieldException**(java.lang.String)

3.2.46 java.lang.NoSuchMethodError

public class java.lang.NoSuchMethodError extends java.lang.IncompatibleClassChangeError	
public	**NoSuchMethodError**()
public	**NoSuchMethodError**(java.lang.String)

3.2.47 java.lang.NoSuchMethodException

public class java.lang.NoSuchMethodException extends java.lang.Exception	
public	**NoSuchMethodException**()
public	**NoSuchMethodException**(java.lang.String)

3.2.48 java.lang.NullPointerException

public class java.lang.NullPointerException extends java.lang.RuntimeException	
public	**NullPointerException**()
public	**NullPointerException**(java.lang.String)

3.2.49 java.lang.Number

public abstract class java.lang.Number extends java.lang.Object implements java.io.Serializable	
public	**Number**()
public byte	**byteValue**()
public abstract double	**doubleValue**()
public abstract float	**floatValue**()
public abstract int	**intValue**()
public abstract long	**longValue**()
public short	**shortValue**()

3.2.50 java.lang.NumberFormatException

public class java.lang.NumberFormatException extends java.lang.IllegalArgumentException

All Page Within This Box

public	**NumberFormatException**()
public	**NumberFormatException**(java.lang.String)

3.2.51 java.lang.Object

public class java.lang.Object	
public	**Object**()
protected java.lang.Object	**clone**() throws java.lang.CloneNotSupportedException
public boolean	**equals**(java.lang.Object)
protected void	**finalize**() throws java.lang.Throwable
public final java.lang.Class	**getClass**()
public int	**hashCode**()
public final void	**notify**()
public final void	**notifyAll**()
public java.lang.String	**toString**()
public final void	**wait**(long) throws java.lang.InterruptedException
public final void	**wait**(long, int) throws java.lang.InterruptedException
public final void	**wait**() throws java.lang.InterruptedException

3.2.52 java.lang.OutOfMemoryError

public class java.lang.OutOfMemoryError extends java.lang.VirtualMachineError	
public	**OutOfMemoryError**()
public	**OutOfMemoryError**(java.lang.String)

3.2.53 java.lang.Package

public class java.lang.Package extends java.lang.Object	
public java.lang.String	**getImplementationTitle**()
public java.lang.String	**getImplementationVendor**()
public java.lang.String	**getImplementationVersion**()
public java.lang.String	**getName**()
public static java.lang.Package	**getPackage**(java.lang.String)
public static java.lang.Package	**getPackages**()
public java.lang.String	**getSpecificationTitle**()
public java.lang.String	**getSpecificationVendor**()
public java.lang.String	**getSpecificationVersion**()
public int	**hashCode**()
public boolean	**isCompatibleWith**(java.lang.String) throws java.lang.NumberFormatException
public boolean	**isSealed**()
public boolean	**isSealed**(java.net.URL)
public java.lang.String	**toString**()

All Page Within This Box

3.2.54 java.lang.Process

public abstract class java.lang.Process extends java.lang.Object	
public	**Process**()
public abstract void	**destroy**()
public abstract int	**exitValue**()
public abstract java.io.InputStream	**getErrorStream**()
public abstract java.io.InputStream	**getInputStream**()
public abstract java.io.OutputStream	**getOutputStream**()
public abstract int	**waitFor**() throws java.lang.InterruptedException

3.2.55 java.lang.Runnable

public abstract interface java.lang.Runnable	
public void	**run**()

3.2.56 java.lang.Runtime

public class java.lang.Runtime extends java.lang.Object	
public void	**addShutdownHook**(java.lang.Thread)
public java.lang.Process	**exec**(java.lang.String) throws java.io.IOException
public java.lang.Process	**exec**(java.lang.String, java.lang.String[]) throws java.io.IOException
public java.lang.Process	**exec**(java.lang.String, java.lang.String[], java.io.File) throws java.io.IOException
public java.lang.Process	**exec**(java.lang.String[]) throws java.io.IOException
public java.lang.Process	**exec**(java.lang.String[], java.lang.String[]) throws java.io.IOException
public java.lang.Process	**exec**(java.lang.String[], java.lang.String[], java.io.File) throws java.io.IOException
public void	**exit**(int)
public long	**freeMemory**()
public void	**gc**()
public static java.lang.Runtime	**getRuntime**()
public void	**halt**(int)
public void	**load**(java.lang.String)
public void	**loadLibrary**(java.lang.String)
public boolean	**removeShutdownHook**(java.lang.Thread)
public void	**runFinalization**()
public long	**totalMemory**()
public void	**traceInstructions**(boolean)
public void	**traceMethodCalls**(boolean)

All Page Within This Box

OSGi

3.2.57 java.lang.RuntimeException

public class java.lang.RuntimeException extends java.lang.Exception	
public	**RuntimeException**()
public	**RuntimeException**(java.lang.String)

3.2.58 java.lang.RuntimePermission

public final class java.lang.RuntimePermission extends java.security.BasicPermission	
public	**RuntimePermission**(java.lang.String)
public	**RuntimePermission**(java.lang.String, java.lang.String)

3.2.59 java.lang.SecurityException

public class java.lang.SecurityException extends java.lang.RuntimeException	
public	**SecurityException**()
public	**SecurityException**(java.lang.String)

3.2.60 java.lang.SecurityManager

public class java.lang.SecurityManager extends java.lang.Object	
public	**SecurityManager**()
public void	**checkAccept**(java.lang.String, int)
public void	**checkAccess**(java.lang.Thread)
public void	**checkAccess**(java.lang.ThreadGroup)
public void	**checkAwtEventQueueAccess**()
public void	**checkConnect**(java.lang.String, int)
public void	**checkConnect**(java.lang.String, int, java.lang.Object)
public void	**checkCreateClassLoader**()
public void	**checkDelete**(java.lang.String)
public void	**checkExec**(java.lang.String)
public void	**checkExit**(int)
public void	**checkLink**(java.lang.String)
public void	**checkListen**(int)
public void	**checkMemberAccess**(java.lang.Class, int)
public void	**checkMulticast**(java.net.InetAddress)
public void	**checkMulticast**(java.net.InetAddress, byte)
public void	**checkPackageAccess**(java.lang.String)
public void	**checkPackageDefinition**(java.lang.String)
public void	**checkPermission**(java.security.Permission)
public void	**checkPermission**(java.security.Permission, java.lang.Object)
public void	**checkPrintJobAccess**()
public void	**checkPropertiesAccess**()
public void	**checkPropertyAccess**(java.lang.String)

All Page Within This Box

public void	**checkRead**(java.io.FileDescriptor)
public void	**checkRead**(java.lang.String)
public void	**checkRead**(java.lang.String, java.lang.Object)
public void	**checkSecurityAccess**(java.lang.String)
public void	**checkSetFactory**()
public void	**checkSystemClipboardAccess**()
public boolean	**checkTopLevelWindow**(java.lang.Object)
public void	**checkWrite**(java.io.FileDescriptor)
public void	**checkWrite**(java.lang.String)
protected java.lang.Class	**getClassContext**()
public java.lang.Object	**getSecurityContext**()
public java.lang.ThreadGroup	**getThreadGroup**()

3.2.61 java.lang.Short

public final class java.lang.Short extends java.lang.Number implements java.lang.Comparable	
public static final short	**MAX_VALUE**
public static final short	**MIN_VALUE**
public static final java.lang.Class	**TYPE**
public	**Short**(short)
public	**Short**(java.lang.String) throws java.lang.NumberFormatException
public byte	**byteValue**()
public int	**compareTo**(java.lang.Short)
public int	**compareTo**(java.lang.Object)
public static java.lang.Short	**decode**(java.lang.String) throws java.lang.NumberFormatException
public double	**doubleValue**()
public boolean	**equals**(java.lang.Object)
public float	**floatValue**()
public int	**hashCode**()
public int	**intValue**()
public long	**longValue**()
public static short	**parseShort**(java.lang.String) throws java.lang.NumberFormatException
public static short	**parseShort**(java.lang.String, int) throws java.lang.NumberFormatException
public short	**shortValue**()
public static java.lang.String	**toString**(short)
public java.lang.String	**toString**()
public static java.lang.Short	**valueOf**(java.lang.String, int) throws java.lang.NumberFormatException
public static java.lang.Short	**valueOf**(java.lang.String) throws java.lang.NumberFormatException

3.2.62 java.lang.StackOverflowError

public class java.lang.StackOverflowError extends java.lang.VirtualMachineError

All Page Within This Box

public	**StackOverflowError**()
public	**StackOverflowError**(java.lang.String)

3.2.63 java.lang.StrictMath

public final class java.lang.StrictMath extends java.lang.Object	
public static final double	**E**
public static final double	**PI**
public static double	**IEEEremainder**(double, double)
public static int	**abs**(int)
public static long	**abs**(long)
public static float	**abs**(float)
public static double	**abs**(double)
public static double	**acos**(double)
public static double	**asin**(double)
public static double	**atan**(double)
public static double	**atan2**(double, double)
public static double	**ceil**(double)
public static double	**cos**(double)
public static double	**exp**(double)
public static double	**floor**(double)
public static double	**log**(double)
public static int	**max**(int, int)
public static long	**max**(long, long)
public static float	**max**(float, float)
public static double	**max**(double, double)
public static int	**min**(int, int)
public static long	**min**(long, long)
public static float	**min**(float, float)
public static double	**min**(double, double)
public static double	**pow**(double, double)
public static double	**random**()
public static double	**rint**(double)
public static int	**round**(float)
public static long	**round**(double)
public static double	**sin**(double)
public static double	**sqrt**(double)
public static double	**tan**(double)
public static double	**toDegrees**(double)
public static double	**toRadians**(double)

All Page Within This Box

3.2.64 java.lang.String

public final class java.lang.String extends java.lang.Object implements java.io.Serializable, java.lang.Comparable	
public static final java.util.Comparator	**CASE_INSENSITIVE_ORDER**
public	**String**()
public	**String**(java.lang.String)
public	**String**(char[])
public	**String**(char[], int, int)
public	**String**(byte[], int, int, java.lang.String) throws java.io.UnsupportedEncodingException
public	**String**(byte[], java.lang.String) throws java.io.UnsupportedEncodingException
public	**String**(byte[], int, int)
public	**String**(byte[])
public	**String**(java.lang.StringBuffer)
public char	**charAt**(int)
public int	**compareTo**(java.lang.String)
public int	**compareTo**(java.lang.Object)
public int	**compareToIgnoreCase** (java.lang.String)
public java.lang.String	**concat**(java.lang.String)
public static java.lang.String	**copyValueOf**(char[], int, int)
public static java.lang.String	**copyValueOf**(char[])
public boolean	**endsWith**(java.lang.String)
public boolean	**equals**(java.lang.Object)
public boolean	**equalsIgnoreCase** (java.lang.String)
public byte	**getBytes**(java.lang.String) throws java.io.UnsupportedEncodingException
public byte	**getBytes**()
public void	**getChars**(int, int, char[], int)
public int	**hashCode**()
public int	**indexOf**(int)
public int	**indexOf**(int, int)
public int	**indexOf**(java.lang.String)
public int	**indexOf**(java.lang.String, int)
public java.lang.String	**intern**()
public int	**lastIndexOf**(int)
public int	**lastIndexOf**(int, int)
public int	**lastIndexOf**(java.lang.String)
public int	**lastIndexOf**(java.lang.String, int)
public int	**length**()
public boolean	**regionMatches**(int, java.lang.String, int, int)

All Page Within This Box

public boolean	**regionMatches**(boolean, int, java.lang.String, int, int)
public java.lang.String	**replace**(char, char)
public boolean	**startsWith**(java.lang.String, int)
public boolean	**startsWith**(java.lang.String)
public java.lang.String	**substring**(int)
public java.lang.String	**substring**(int, int)
public char	**toCharArray**()
public java.lang.String	**toLowerCase** (java.util.Locale)
public java.lang.String	**toLowerCase** ()
public java.lang.String	**toString**()
public java.lang.String	**toUpperCase** (java.util.Locale)
public java.lang.String	**toUpperCase** ()
public java.lang.String	**trim**()
public static java.lang.String	**valueOf**(java.lang.Object)
public static java.lang.String	**valueOf**(char[])
public static java.lang.String	**valueOf**(char[], int, int)
public static java.lang.String	**valueOf**(boolean)
public static java.lang.String	**valueOf**(char)
public static java.lang.String	**valueOf**(int)
public static java.lang.String	**valueOf**(long)
public static java.lang.String	**valueOf**(float)
public static java.lang.String	**valueOf**(double)

3.2.65 java.lang.StringBuffer

public final class java.lang.StringBuffer extends java.lang.Object implements java.io.Serializable	
public	**StringBuffer**()
public	**StringBuffer**(int)
public	**StringBuffer**(java.lang.String)
public java.lang.StringBuffer	**append**(java.lang.Object)
public java.lang.StringBuffer	**append**(java.lang.String)
public java.lang.StringBuffer	**append**(char[])
public java.lang.StringBuffer	**append**(char[], int, int)
public java.lang.StringBuffer	**append**(boolean)
public java.lang.StringBuffer	**append**(char)
public java.lang.StringBuffer	**append**(int)
public java.lang.StringBuffer	**append**(long)
public java.lang.StringBuffer	**append**(float)
public java.lang.StringBuffer	**append**(double)
public int	**capacity**()

All Page Within This Box

public char	**charAt**(int)
public java.lang.StringBuffer	**delete**(int, int)
public java.lang.StringBuffer	**deleteCharAt**(int)
public void	**ensureCapacity**(int)
public void	**getChars**(int, int, char[], int)
public java.lang.StringBuffer	**insert**(int, char[], int, int)
public java.lang.StringBuffer	**insert**(int, java.lang.Object)
public java.lang.StringBuffer	**insert**(int, java.lang.String)
public java.lang.StringBuffer	**insert**(int, char[])
public java.lang.StringBuffer	**insert**(int, boolean)
public java.lang.StringBuffer	**insert**(int, char)
public java.lang.StringBuffer	**insert**(int, int)
public java.lang.StringBuffer	**insert**(int, long)
public java.lang.StringBuffer	**insert**(int, float)
public java.lang.StringBuffer	**insert**(int, double)
public int	**length**()
public java.lang.StringBuffer	**replace**(int, int, java.lang.String)
public java.lang.StringBuffer	**reverse**()
public void	**setCharAt**(int, char)
public void	**setLength**(int)
public java.lang.String	**substring**(int)
public java.lang.String	**substring**(int, int)
public java.lang.String	**toString**()

3.2.66 java.lang.StringIndexOutOfBoundsException

public class java.lang.StringIndexOutOfBoundsException extends java.lang.IndexOutOfBoundsException	
public	**StringIndexOutOfBoundsException**()
public	**StringIndexOutOfBoundsException**(java.lang.String)
public	**StringIndexOutOfBoundsException**(int)

3.2.67 java.lang.System

public final class java.lang.System extends java.lang.Object	
public static final java.io.PrintStream	**err**
public static final java.io.InputStream	**in**
public static final java.io.PrintStream	**out**
public static void	**arraycopy**(java.lang.Object, int, java.lang.Object, int, int)
public static long	**currentTimeMillis**()
public static void	**exit**(int)

All Page Within This Box

public static void	gc()
public static java.util.Properties	getProperties()
public static java.lang.String	getProperty(java.lang.String)
public static java.lang.String	getProperty(java.lang.String, java.lang.String)
public static java.lang.SecurityManager	getSecurityManager()
public static int	identityHashCode(java.lang.Object)
public static void	load(java.lang.String)
public static void	loadLibrary(java.lang.String)
public static java.lang.String	mapLibraryName(java.lang.String)
public static void	runFinalization()
public static void	setErr(java.io.PrintStream)
public static void	setIn(java.io.InputStream)
public static void	setOut(java.io.PrintStream)
public static void	setProperties(java.util.Properties)
public static java.lang.String	setProperty(java.lang.String, java.lang.String)
public static void	setSecurityManager(java.lang.SecurityManager)

3.2.68 java.lang.Thread

public class java.lang.Thread extends java.lang.Object implements java.lang.Runnable	
public static final int	MAX_PRIORITY
public static final int	MIN_PRIORITY
public static final int	NORM_PRIORITY
public	Thread()
public	Thread(java.lang.Runnable)
public	Thread(java.lang.ThreadGroup, java.lang.Runnable)
public	Thread(java.lang.String)
public	Thread(java.lang.ThreadGroup, java.lang.String)
public	Thread(java.lang.Runnable, java.lang.String)
public	Thread(java.lang.ThreadGroup, java.lang.Runnable, java.lang.String)
public static int	activeCount()
public final void	checkAccess()
public static java.lang.Thread	currentThread()
public void	destroy()
public static void	dumpStack()
public static int	enumerate(java.lang.Thread[])
public java.lang.ClassLoader	getContextClassLoader()
public final java.lang.String	getName()
public final int	getPriority()
public final	getThreadGroup()

java.lang.ThreadGroup	
public void	**interrupt**()
public static boolean	**interrupted**()
public final boolean	**isAlive**()
public final boolean	**isDaemon**()
public boolean	**isInterrupted**()
public final void	**join**(long) throws java.lang.InterruptedException
public final void	**join**(long, int) throws java.lang.InterruptedException
public final void	**join**() throws java.lang.InterruptedException
public void	**run**()
public void	**setContextClassLoader**(java.lang.ClassLoader)
public final void	**setDaemon**(boolean)
public final void	**setName**(java.lang.String)
public final void	**setPriority**(int)
public static void	**sleep**(long) throws java.lang.InterruptedException
public static void	**sleep**(long, int) throws java.lang.InterruptedException
public void	**start**()
public java.lang.String	**toString**()
public static void	**yield**()

3.2.69 java.lang.ThreadDeath

public class java.lang.ThreadDeath extends java.lang.Error	
public	**ThreadDeath**()

3.2.70 java.lang.ThreadGroup

public class java.lang.ThreadGroup extends java.lang.Object	
public	**ThreadGroup**(java.lang.String)
public	**ThreadGroup**(java.lang.ThreadGroup, java.lang.String)
public int	**activeCount**()
public int	**activeGroupCount**()
public final void	**checkAccess**()
public final void	**destroy**()
public int	**enumerate**(java.lang.Thread[])
public int	**enumerate**(java.lang.Thread[], boolean)
public int	**enumerate**(java.lang.ThreadGroup[])
public int	**enumerate**(java.lang.ThreadGroup[], boolean)
public final int	**getMaxPriority**()
public final java.lang.String	**getName**()
public final java.lang.ThreadGroup	**getParent**()

public final void	interrupt()
public final boolean	isDaemon()
public boolean	isDestroyed()
public void	list()
public final boolean	parentOf(java.lang.ThreadGroup)
public final void	setDaemon(boolean)
public final void	setMaxPriority(int)
public java.lang.String	toString()
public void	uncaughtException(java.lang.Thread, java.lang.Throwable)

3.2.71 java.lang.ThreadLocal

public class java.lang.ThreadLocal extends java.lang.Object	
public	ThreadLocal()
public java.lang.Object	get()
protected java.lang.Object	initialValue()
public void	set(java.lang.Object)

3.2.72 java.lang.Throwable

public class java.lang.Throwable extends java.lang.Object implements java.io.Serializable	
public	Throwable()
public	Throwable(java.lang.String)
public java.lang.Throwable	fillInStackTrace()
public java.lang.String	getLocalizedMessage()
public java.lang.String	getMessage()
public void	printStackTrace()
public void	printStackTrace(java.io.PrintStream)
public void	printStackTrace(java.io.PrintWriter)
public java.lang.String	toString()

3.2.73 java.lang.UnknownError

public class java.lang.UnknownError extends java.lang.VirtualMachineError	
public	UnknownError()
public	UnknownError(java.lang.String)

3.2.74 java.lang.UnsatisfiedLinkError

public class java.lang.UnsatisfiedLinkError extends java.lang.LinkageError	
public	UnsatisfiedLinkError()
public	UnsatisfiedLinkError(java.lang.String)

3.2.75 java.lang.UnsupportedClassVersionError

public class java.lang.UnsupportedClassVersionError extends java.lang.ClassFormatError

All Page Within This Box

| public | **UnsupportedClassVersionError**() |
| public | **UnsupportedClassVersionError**(java.lang.String) |

3.2.76 java.lang.UnsupportedOperationException

public class java.lang.UnsupportedOperationException extends java.lang.RuntimeException	
public	**UnsupportedOperationException**()
public	**UnsupportedOperationException**(java.lang.String)

3.2.77 java.lang.VerifyError

public class java.lang.VerifyError extends java.lang.LinkageError	
public	**VerifyError**()
public	**VerifyError**(java.lang.String)

3.2.78 java.lang.VirtualMachineError

public abstract class java.lang.VirtualMachineError extends java.lang.Error	
public	**VirtualMachineError**()
public	**VirtualMachineError**(java.lang.String)

3.2.79 java.lang.Void

| **public final class java.lang.Void extends java.lang.Object** | |
| public static final java.lang.Class | **TYPE** |

3.3 Package java.lang.ref

3.3.1 java.lang.ref.PhantomReference

public class java.lang.ref.PhantomReference extends java.lang.ref.Reference	
public	**PhantomReference**(java.lang.Object, java.lang.ref.ReferenceQueue)
public java.lang.Object	**get**()

3.3.2 java.lang.ref.Reference

public abstract class java.lang.ref.Reference extends java.lang.Object	
public void	**clear**()
public boolean	**enqueue**()
public java.lang.Object	**get**()
public boolean	**isEnqueued**()

3.3.3 java.lang.ref.ReferenceQueue

public class java.lang.ref.ReferenceQueue extends java.lang.Object	
public	**ReferenceQueue**()
public java.lang.ref.Reference	**poll**()
public java.lang.ref.Reference	**remove**(long) throws java.lang.IllegalArgumentException, java.lang.InterruptedException
public java.lang.ref.Reference	**remove**() throws java.lang.InterruptedException

All Page Within This Box

3.3.4 java.lang.ref.SoftReference

public class java.lang.ref.SoftReference extends java.lang.ref.Reference	
public	**SoftReference**(java.lang.Object)
public	**SoftReference**(java.lang.Object, java.lang.ref.ReferenceQueue)
public java.lang.Object	**get**()

3.3.5 java.lang.ref.WeakReference

public class java.lang.ref.WeakReference extends java.lang.ref.Reference	
public	**WeakReference**(java.lang.Object)
public	**WeakReference**(java.lang.Object, java.lang.ref.ReferenceQueue)

3.4 Package java.lang.reflect

3.4.1 java.lang.reflect.AccessibleObject

public class java.lang.reflect.AccessibleObject extends java.lang.Object	
protected	**AccessibleObject**()
public boolean	**isAccessible**()
public static void	**setAccessible**(java.lang.reflect.AccessibleObject[], boolean) throws java.lang.SecurityException
public void	**setAccessible**(boolean) throws java.lang.SecurityException

3.4.2 java.lang.reflect.Array

public final class java.lang.reflect.Array extends java.lang.Object	
public static java.lang.Object	**get**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static boolean	**getBoolean**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static byte	**getByte**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static char	**getChar**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static double	**getDouble**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static float	**getFloat**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static int	**getInt**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static int	**getLength**(java.lang.Object) throws java.lang.IllegalArgumentException
public static long	**getLong**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static short	**getShort**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static java.lang.Object	**newInstance**(java.lang.Class, int) throws java.lang.NegativeArraySizeException

All Page Within This Box

public static java.lang.Object	**newInstance**(java.lang.Class, int[]) throws java.lang.IllegalArgumentException, java.lang.NegativeArraySizeException
public static void	**set**(java.lang.Object, int, java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static void	**setBoolean**(java.lang.Object, int, boolean) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static void	**setByte**(java.lang.Object, int, byte) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static void	**setChar**(java.lang.Object, int, char) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static void	**setDouble**(java.lang.Object, int, double) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static void	**setFloat**(java.lang.Object, int, float) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static void	**setInt**(java.lang.Object, int, int) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static void	**setLong**(java.lang.Object, int, long) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException
public static void	**setShort**(java.lang.Object, int, short) throws java.lang.IllegalArgumentException, java.lang.ArrayIndexOutOfBoundsException

3.4.3 java.lang.reflect.Constructor

public final class java.lang.reflect.Constructor extends java.lang.reflect.AccessibleObject implements java.lang.reflect.Member	
public boolean	**equals**(java.lang.Object)
public java.lang.Class	**getDeclaringClass**()
public java.lang.Class	**getExceptionTypes**()
public int	**getModifiers**()
public java.lang.String	**getName**()
public java.lang.Class	**getParameterTypes**()
public int	**hashCode**()
public java.lang.Object	**newInstance**(java.lang.Object[]) throws java.lang.InstantiationException, java.lang.IllegalAccessException, java.lang.IllegalArgumentException, java.lang.reflect.InvocationTargetException
public java.lang.String	**toString**()

3.4.4 java.lang.reflect.Field

public final class java.lang.reflect.Field extends java.lang.reflect.AccessibleObject implements java.lang.reflect.Member

All Page Within This Box

public boolean	**equals**(java.lang.Object)
public java.lang.Object	**get**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public boolean	**getBoolean**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public byte	**getByte**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public char	**getChar**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public java.lang.Class	**getDeclaringClass**()
public double	**getDouble**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public float	**getFloat**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public int	**getInt**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public long	**getLong**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public int	**getModifiers**()
public java.lang.String	**getName**()
public short	**getShort**(java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public java.lang.Class	**getType**()
public int	**hashCode**()
public void	**set**(java.lang.Object, java.lang.Object) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public void	**setBoolean**(java.lang.Object, boolean) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public void	**setByte**(java.lang.Object, byte) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public void	**setChar**(java.lang.Object, char) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public void	**setDouble**(java.lang.Object, double) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public void	**setFloat**(java.lang.Object, float) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public void	**setInt**(java.lang.Object, int) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public void	**setLong**(java.lang.Object, long) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public void	**setShort**(java.lang.Object, short) throws java.lang.IllegalArgumentException, java.lang.IllegalAccessException
public java.lang.String	**toString**()

All Page Within This Box

3.4.5 java.lang.reflect.InvocationHandler

public abstract interface java.lang.reflect.InvocationHandler	
public java.lang.Object	**invoke**(java.lang.Object, java.lang.reflect.Method, java.lang.Object[]) throws java.lang.Throwable

3.4.6 java.lang.reflect.InvocationTargetException

public class java.lang.reflect.InvocationTargetException extends java.lang.Exception	
protected	**InvocationTargetException**()
public	**InvocationTargetException**(java.lang.Throwable)
public	**InvocationTargetException**(java.lang.Throwable, java.lang.String)
public java.lang.Throwable	**getTargetException**()
public void	**printStackTrace**()
public void	**printStackTrace**(java.io.PrintStream)
public void	**printStackTrace**(java.io.PrintWriter)

3.4.7 java.lang.reflect.Member

public abstract interface java.lang.reflect.Member	
public static final int	**DECLARED**
public static final int	**PUBLIC**
public java.lang.Class	**getDeclaringClass**()
public int	**getModifiers**()
public java.lang.String	**getName**()

3.4.8 java.lang.reflect.Method

public final class java.lang.reflect.Method extends java.lang.reflect.AccessibleObject implements java.lang.reflect.Member	
public boolean	**equals**(java.lang.Object)
public java.lang.Class	**getDeclaringClass**()
public java.lang.Class	**getExceptionTypes**()
public int	**getModifiers**()
public java.lang.String	**getName**()
public java.lang.Class	**getParameterTypes**()
public java.lang.Class	**getReturnType**()
public int	**hashCode**()
public java.lang.Object	**invoke**(java.lang.Object, java.lang.Object[]) throws java.lang.IllegalAccessException, java.lang.IllegalArgumentException, java.lang.reflect.InvocationTargetException
public java.lang.String	**toString**()

3.4.9 java.lang.reflect.Modifier

public class java.lang.reflect.Modifier extends java.lang.Object	
public static final int	**ABSTRACT**

All Page Within This Box

public static final int	**FINAL**
public static final int	**INTERFACE**
public static final int	**NATIVE**
public static final int	**PRIVATE**
public static final int	**PROTECTED**
public static final int	**PUBLIC**
public static final int	**STATIC**
public static final int	**STRICT**
public static final int	**SYNCHRONIZED**
public static final int	**TRANSIENT**
public static final int	**VOLATILE**
public	**Modifier**()
public static boolean	**isAbstract**(int)
public static boolean	**isFinal**(int)
public static boolean	**isInterface**(int)
public static boolean	**isNative**(int)
public static boolean	**isPrivate**(int)
public static boolean	**isProtected**(int)
public static boolean	**isPublic**(int)
public static boolean	**isStatic**(int)
public static boolean	**isStrict**(int)
public static boolean	**isSynchronized**(int)
public static boolean	**isTransient**(int)
public static boolean	**isVolatile**(int)
public static java.lang.String	**toString**(int)

3.4.10 java.lang.reflect.Proxy

public class java.lang.reflect.Proxy extends java.lang.Object implements java.io.Serializable	
protected java.lang.reflect.InvocationHandler	**h**
protected	**Proxy**(java.lang.reflect.InvocationHandler)
public static java.lang.reflect.InvocationHandler	**getInvocationHandler**(java.lang.Object) throws java.lang.IllegalArgumentException
public static java.lang.Class	**getProxyClass**(java.lang.ClassLoader, java.lang.Class[]) throws java.lang.IllegalArgumentException
public static boolean	**isProxyClass**(java.lang.Class)
public static java.lang.Object	**newProxyInstance**(java.lang.ClassLoader, java.lang.Class[], java.lang.reflect.InvocationHandler) throws java.lang.IllegalArgumentException

All Page Within This Box

OSGi

3.4.11 java.lang.reflect.ReflectPermission

public final class java.lang.reflect.ReflectPermission extends java.security.BasicPermission	
public	**ReflectPermission**(java.lang.String)
public	**ReflectPermission**(java.lang.String, java.lang.String)

3.4.12 java.lang.reflect.UndeclaredThrowableException

public class java.lang.reflect.UndeclaredThrowableException extends java.lang.RuntimeException	
public	**UndeclaredThrowableException**(java.lang.Throwable)
public	**UndeclaredThrowableException**(java.lang.Throwable, java.lang.String)
public java.lang.Throwable	**getUndeclaredThrowable**()
public void	**printStackTrace**()
public void	**printStackTrace**(java.io.PrintStream)
public void	**printStackTrace**(java.io.PrintWriter)

3.5 Package java.math

3.5.1 java.math.BigInteger

public class java.math.BigInteger extends java.lang.Number implements java.lang.Comparable	
public static final java.math.BigInteger	**ONE**
public static final java.math.BigInteger	**ZERO**
public	**BigInteger**(byte[])
public	**BigInteger**(int, byte[])
public	**BigInteger**(java.lang.String, int)
public	**BigInteger**(java.lang.String)
public	**BigInteger**(int, java.util.Random)
public	**BigInteger**(int, int, java.util.Random)
public java.math.BigInteger	**abs**()
public java.math.BigInteger	**add**(java.math.BigInteger)
public java.math.BigInteger	**and**(java.math.BigInteger)
public java.math.BigInteger	**andNot**(java.math.BigInteger)
public int	**bitCount**()
public int	**bitLength**()
public java.math.BigInteger	**clearBit**(int)
public int	**compareTo**(java.math.BigInteger)
public int	**compareTo**(java.lang.Object)
public java.math.BigInteger	**divide**(java.math.BigInteger)
public java.math.BigInteger	**divideAndRemainder**(java.math.BigInteger)
public double	**doubleValue**()
public boolean	**equals**(java.lang.Object)

public java.math.BigInteger	**flipBit**(int)
public float	**floatValue**()
public java.math.BigInteger	**gcd**(java.math.BigInteger)
public int	**getLowestSetBit**()
public int	**hashCode**()
public int	**intValue**()
public boolean	**isProbablePrime**(int)
public long	**longValue**()
public java.math.BigInteger	**max**(java.math.BigInteger)
public java.math.BigInteger	**min**(java.math.BigInteger)
public java.math.BigInteger	**mod**(java.math.BigInteger)
public java.math.BigInteger	**modInverse** (java.math.BigInteger)
public java.math.BigInteger	**modPow** (java.math.BigInteger, java.math.BigInteger)
public java.math.BigInteger	**multiply**(java.math.BigInteger)
public java.math.BigInteger	**negate**()
public java.math.BigInteger	**not**()
public java.math.BigInteger	**or**(java.math.BigInteger)
public java.math.BigInteger	**pow**(int)
public java.math.BigInteger	**remainder**(java.math.BigInteger)
public java.math.BigInteger	**setBit**(int)
public java.math.BigInteger	**shiftLeft**(int)
public java.math.BigInteger	**shiftRight**(int)
public int	**signum**()
public java.math.BigInteger	**subtract**(java.math.BigInteger)
public boolean	**testBit**(int)
public byte	**toByteArray**()
public java.lang.String	**toString**(int)
public java.lang.String	**toString**()
public static java.math.BigInteger	**valueOf**(long)
public java.math.BigInteger	**xor**(java.math.BigInteger)

3.6 Package java.net

3.6.1 java.net.Authenticator

public abstract class java.net.Authenticator extends java.lang.Object	
public	**Authenticator**()
protected java.net.PasswordAuthentication	**getPasswordAuthentication**()
protected final int	**getRequestingPort**()
protected final java.lang.String	**getRequestingPrompt**()

All Page Within This Box

protected final java.lang.String	**getRequestingProtocol**()
protected final java.lang.String	**getRequestingScheme**()
protected final java.net.InetAddress	**getRequestingSite**()
public static java.net.PasswordAuthentication	**requestPasswordAuthentication**(java.net.InetAddress, int, java.lang.String, java.lang.String, java.lang.String)
public static void	**setDefault**(java.net.Authenticator)

3.6.2 java.net.BindException

public class java.net.BindException extends java.net.SocketException	
public	**BindException**(java.lang.String)
public	**BindException**()

3.6.3 java.net.ConnectException

public class java.net.ConnectException extends java.net.SocketException	
public	**ConnectException**(java.lang.String)
public	**ConnectException**()

3.6.4 java.net.ContentHandler

public abstract class java.net.ContentHandler extends java.lang.Object	
public	**ContentHandler**()
public abstract java.lang.Object	**getContent**(java.net.URLConnection) throws java.io.IOException
public java.lang.Object	**getContent**(java.net.URLConnection, java.lang.Class[]) throws java.io.IOException

3.6.5 java.net.ContentHandlerFactory

public abstract interface java.net.ContentHandlerFactory	
public java.net.ContentHandler	**createContentHandler**(java.lang.String)

3.6.6 java.net.DatagramPacket

public final class java.net.DatagramPacket extends java.lang.Object	
public	**DatagramPacket**(byte[], int, int)
public	**DatagramPacket**(byte[], int)
public	**DatagramPacket**(byte[], int, int, java.net.InetAddress, int)
public	**DatagramPacket**(byte[], int, java.net.InetAddress, int)
public java.net.InetAddress	**getAddress**()
public byte	**getData**()
public int	**getLength**()
public int	**getOffset**()
public int	**getPort**()
public void	**setAddress**(java.net.InetAddress)
public void	**setData**(byte[], int, int)

All Page Within This Box

public void	**setData**(byte[])
public void	**setLength**(int)
public void	**setPort**(int)

3.6.7 java.net.DatagramSocket

public class java.net.DatagramSocket extends java.lang.Object	
public	**DatagramSocket**() throws java.net.SocketException
public	**DatagramSocket**(int) throws java.net.SocketException
public	**DatagramSocket**(int, java.net.InetAddress) throws java.net.SocketException
public void	**close**()
public void	**connect**(java.net.InetAddress, int)
public void	**disconnect**()
public java.net.InetAddress	**getInetAddress**()
public java.net.InetAddress	**getLocalAddress**()
public int	**getLocalPort**()
public int	**getPort**()
public int	**getReceiveBufferSize**() throws java.net.SocketException
public int	**getSendBufferSize**() throws java.net.SocketException
public int	**getSoTimeout**() throws java.net.SocketException
public void	**receive**(java.net.DatagramPacket) throws java.io.IOException
public void	**send**(java.net.DatagramPacket) throws java.io.IOException
public static void	**setDatagramSocketImplFactory**(java.net.DatagramSocketImplFactory) throws java.io.IOException
public void	**setReceiveBufferSize**(int) throws java.net.SocketException
public void	**setSendBufferSize**(int) throws java.net.SocketException
public void	**setSoTimeout**(int) throws java.net.SocketException

3.6.8 java.net.DatagramSocketImpl

public abstract class java.net.DatagramSocketImpl extends java.lang.Object implements java.net.SocketOptions	
protected java.io.FileDescriptor	**fd**
protected int	**localPort**
public	**DatagramSocketImpl**()
protected abstract void	**bind**(int, java.net.InetAddress) throws java.net.SocketException
protected abstract void	**close**()
protected abstract void	**create**() throws java.net.SocketException
protected java.io.FileDescriptor	**getFileDescriptor**()
protected int	**getLocalPort**()
public abstract java.lang.Object	**getOption**(int) throws java.net.SocketException
protected abstract int	**getTimeToLive**() throws java.io.IOException

All Page Within This Box

protected abstract void	**join**(java.net.InetAddress) throws java.io.IOException
protected abstract void	**leave**(java.net.InetAddress) throws java.io.IOException
protected abstract int	**peek**(java.net.InetAddress) throws java.io.IOException
protected abstract void	**receive**(java.net.DatagramPacket) throws java.io.IOException
protected abstract void	**send**(java.net.DatagramPacket) throws java.io.IOException
public abstract void	**setOption**(int, java.lang.Object) throws java.net.SocketException
protected abstract void	**setTimeToLive**(int) throws java.io.IOException

3.6.9 java.net.DatagramSocketImplFactory

public abstract interface java.net.DatagramSocketImplFactory	
public java.net.DatagramSocketImpl	**createDatagramSocketImpl**()

3.6.10 java.net.FileNameMap

public abstract interface java.net.FileNameMap	
public java.lang.String	**getContentTypeFor**(java.lang.String)

3.6.11 java.net.HttpURLConnection

public abstract class java.net.HttpURLConnection extends java.net.URLConnection	
public static final int	**HTTP_ACCEPTED**
public static final int	**HTTP_BAD_GATEWAY**
public static final int	**HTTP_BAD_METHOD**
public static final int	**HTTP_BAD_REQUEST**
public static final int	**HTTP_CLIENT_TIMEOUT**
public static final int	**HTTP_CONFLICT**
public static final int	**HTTP_CREATED**
public static final int	**HTTP_ENTITY_TOO_LARGE**
public static final int	**HTTP_FORBIDDEN**
public static final int	**HTTP_GATEWAY_TIMEOUT**
public static final int	**HTTP_GONE**
public static final int	**HTTP_INTERNAL_ERROR**
public static final int	**HTTP_LENGTH_REQUIRED**
public static final int	**HTTP_MOVED_PERM**
public static final int	**HTTP_MOVED_TEMP**
public static final int	**HTTP_MULT_CHOICE**
public static final int	**HTTP_NOT_ACCEPTABLE**
public static final int	**HTTP_NOT_AUTHORITATIVE**
public static final int	**HTTP_NOT_FOUND**
public static final int	**HTTP_NOT_IMPLEMENTED**
public static final int	**HTTP_NOT_MODIFIED**

All Page Within This Box

public static final int	**HTTP_NO_CONTENT**
public static final int	**HTTP_OK**
public static final int	**HTTP_PARTIAL**
public static final int	**HTTP_PAYMENT_REQUIRED**
public static final int	**HTTP_PRECON_FAILED**
public static final int	**HTTP_PROXY_AUTH**
public static final int	**HTTP_REQ_TOO_LONG**
public static final int	**HTTP_RESET**
public static final int	**HTTP_SEE_OTHER**
public static final int	**HTTP_UNAUTHORIZED**
public static final int	**HTTP_UNAVAILABLE**
public static final int	**HTTP_UNSUPPORTED_TYPE**
public static final int	**HTTP_USE_PROXY**
public static final int	**HTTP_VERSION**
protected boolean	**instanceFollowRedirects**
protected java.lang.String	**method**
protected int	**responseCode**
protected java.lang.String	**responseMessage**
protected	**HttpURLConnection**(java.net.URL)
public abstract void	**disconnect**()
public java.io.InputStream	**getErrorStream**()
public static boolean	**getFollowRedirects**()
public long	**getHeaderFieldDate**(java.lang.String, long)
public boolean	**getInstanceFollowRedirects**()
public java.security.Permission	**getPermission**() throws java.io.IOException
public java.lang.String	**getRequestMethod**()
public int	**getResponseCode**() throws java.io.IOException
public java.lang.String	**getResponseMessage**() throws java.io.IOException
public static void	**setFollowRedirects**(boolean)
public void	**setInstanceFollowRedirects**(boolean)
public void	**setRequestMethod**(java.lang.String) throws java.net.ProtocolException
public abstract boolean	**usingProxy**()

3.6.12 java.net.InetAddress

public final class java.net.InetAddress extends java.lang.Object implements java.io.Serializable	
public boolean	**equals**(java.lang.Object)
public byte	**getAddress**()
public static java.net.InetAddress	**getAllByName**(java.lang.String) throws java.net.UnknownHostException
public static java.net.InetAddress	**getByName**(java.lang.String) throws java.net.UnknownHostException

All Page Within This Box

public java.lang.String	**getHostAddress**()
public java.lang.String	**getHostName**()
public static java.net.InetAddress	**getLocalHost**() throws java.net.UnknownHostException
public int	**hashCode**()
public boolean	**isMulticastAddress**()
public java.lang.String	**toString**()

3.6.13 java.net.JarURLConnection

public abstract class java.net.JarURLConnection extends java.net.URLConnection	
protected java.net.URLConnection	**jarFileURLConnection**
protected	**JarURLConnection**(java.net.URL) throws java.net.MalformedURLException
public java.util.jar.Attributes	**getAttributes**() throws java.io.IOException
public java.security.cert.Certificate	**getCertificates**() throws java.io.IOException
public java.lang.String	**getEntryName**()
public java.util.jar.JarEntry	**getJarEntry**() throws java.io.IOException
public abstract java.util.jar.JarFile	**getJarFile**() throws java.io.IOException
public java.net.URL	**getJarFileURL**()
public java.util.jar.Attributes	**getMainAttributes**() throws java.io.IOException
public java.util.jar.Manifest	**getManifest**() throws java.io.IOException

3.6.14 java.net.MalformedURLException

public class java.net.MalformedURLException extends java.io.IOException	
public	**MalformedURLException**()
public	**MalformedURLException**(java.lang.String)

3.6.15 java.net.MulticastSocket

public class java.net.MulticastSocket extends java.net.DatagramSocket	
public	**MulticastSocket**() throws java.io.IOException
public	**MulticastSocket**(int) throws java.io.IOException
public java.net.InetAddress	**getInterface**() throws java.net.SocketException
public int	**getTimeToLive**() throws java.io.IOException
public void	**joinGroup**(java.net.InetAddress) throws java.io.IOException
public void	**leaveGroup**(java.net.InetAddress) throws java.io.IOException
public void	**send**(java.net.DatagramPacket, byte) throws java.io.IOException
public void	**setInterface**(java.net.InetAddress) throws java.net.SocketException
public void	**setTimeToLive**(int) throws java.io.IOException

3.6.16 java.net.NetPermission

public final class java.net.NetPermission extends java.security.BasicPermission

All Page Within This Box

public	**NetPermission**(java.lang.String)
public	**NetPermission**(java.lang.String, java.lang.String)

3.6.17 java.net.NoRouteToHostException

public class java.net.NoRouteToHostException extends java.net.SocketException	
public	**NoRouteToHostException**(java.lang.String)
public	**NoRouteToHostException**()

3.6.18 java.net.PasswordAuthentication

public final class java.net.PasswordAuthentication extends java.lang.Object	
public	**PasswordAuthentication**(java.lang.String, char[])
public char	**getPassword**()
public java.lang.String	**getUserName**()

3.6.19 java.net.ProtocolException

public class java.net.ProtocolException extends java.io.IOException	
public	**ProtocolException**(java.lang.String)
public	**ProtocolException**()

3.6.20 java.net.ServerSocket

public class java.net.ServerSocket extends java.lang.Object	
public	**ServerSocket**(int) throws java.io.IOException
public	**ServerSocket**(int, int) throws java.io.IOException
public	**ServerSocket**(int, int, java.net.InetAddress) throws java.io.IOException
public java.net.Socket	**accept**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public java.net.InetAddress	**getInetAddress**()
public int	**getLocalPort**()
public int	**getSoTimeout**() throws java.io.IOException
protected final void	**implAccept**(java.net.Socket) throws java.io.IOException
public void	**setSoTimeout**(int) throws java.net.SocketException
public static void	**setSocketFactory**(java.net.SocketImplFactory) throws java.io.IOException
public java.lang.String	**toString**()

3.6.21 java.net.Socket

public class java.net.Socket extends java.lang.Object	
protected	**Socket**()
protected	**Socket**(java.net.SocketImpl) throws java.net.SocketException
public	**Socket**(java.lang.String, int) throws java.net.UnknownHostException, java.io.IOException
public	**Socket**(java.net.InetAddress, int) throws java.io.IOException

All Page Within This Box

public	**Socket**(java.lang.String, int, java.net.InetAddress, int) throws java.io.IOException
public	**Socket**(java.net.InetAddress, int, java.net.InetAddress, int) throws java.io.IOException
public void	**close**() throws java.io.IOException
public java.net.InetAddress	**getInetAddress**()
public java.io.InputStream	**getInputStream**() throws java.io.IOException
public boolean	**getKeepAlive**() throws java.net.SocketException
public java.net.InetAddress	**getLocalAddress**()
public int	**getLocalPort**()
public java.io.OutputStream	**getOutputStream**() throws java.io.IOException
public int	**getPort**()
public int	**getReceiveBufferSize**() throws java.net.SocketException
public int	**getSendBufferSize**() throws java.net.SocketException
public int	**getSoLinger**() throws java.net.SocketException
public int	**getSoTimeout**() throws java.net.SocketException
public boolean	**getTcpNoDelay**() throws java.net.SocketException
public void	**setKeepAlive**(boolean) throws java.net.SocketException
public void	**setReceiveBufferSize**(int) throws java.net.SocketException
public void	**setSendBufferSize**(int) throws java.net.SocketException
public void	**setSoLinger**(boolean, int) throws java.net.SocketException
public void	**setSoTimeout**(int) throws java.net.SocketException
public static void	**setSocketImplFactory**(java.net.SocketImplFactory) throws java.io.IOException
public void	**setTcpNoDelay**(boolean) throws java.net.SocketException
public void	**shutdownInput**() throws java.io.IOException
public void	**shutdownOutput**() throws java.io.IOException
public java.lang.String	**toString**()

3.6.22 java.net.SocketException

public class java.net.SocketException extends java.io.IOException	
public	**SocketException**(java.lang.String)
public	**SocketException**()

3.6.23 java.net.SocketImpl

public abstract class java.net.SocketImpl extends java.lang.Object implements java.net.SocketOptions	
protected java.net.InetAddress	**address**
protected java.io.FileDescriptor	**fd**
protected int	**localport**
protected int	**port**
public	**SocketImpl**()

All Page Within This Box

protected abstract void	**accept**(java.net.SocketImpl) throws java.io.IOException
protected abstract int	**available**() throws java.io.IOException
protected abstract void	**bind**(java.net.InetAddress, int) throws java.io.IOException
protected abstract void	**close**() throws java.io.IOException
protected abstract void	**connect**(java.lang.String, int) throws java.io.IOException
protected abstract void	**connect**(java.net.InetAddress, int) throws java.io.IOException
protected abstract void	**create**(boolean) throws java.io.IOException
protected java.io.FileDescriptor	**getFileDescriptor**()
protected java.net.InetAddress	**getInetAddress**()
protected abstract java.io.InputStream	**getInputStream**() throws java.io.IOException
protected int	**getLocalPort**()
public abstract java.lang.Object	**getOption**(int) throws java.net.SocketException
protected abstract java.io.OutputStream	**getOutputStream**() throws java.io.IOException
protected int	**getPort**()
protected abstract void	**listen**(int) throws java.io.IOException
public abstract void	**setOption**(int, java.lang.Object) throws java.net.SocketException
protected void	**shutdownInput**() throws java.io.IOException
protected void	**shutdownOutput**() throws java.io.IOException
public java.lang.String	**toString**()

3.6.24 java.net.SocketImplFactory

public abstract interface java.net.SocketImplFactory	
public java.net.SocketImpl	**createSocketImpl**()

3.6.25 java.net.SocketOptions

public abstract interface java.net.SocketOptions	
public static final int	**IP_MULTICAST_IF**
public static final int	**SO_BINDADDR**
public static final int	**SO_KEEPALIVE**
public static final int	**SO_LINGER**
public static final int	**SO_RCVBUF**
public static final int	**SO_REUSEADDR**
public static final int	**SO_SNDBUF**
public static final int	**SO_TIMEOUT**
public static final int	**TCP_NODELAY**
public java.lang.Object	**getOption**(int) throws java.net.SocketException
public void	**setOption**(int, java.lang.Object) throws java.net.SocketException

All Page Within This Box

OSGi

3.6.26 java.net.SocketPermission

public final class java.net.SocketPermission extends java.security.Permission implements java.io.Serializable	
public	**SocketPermission**(java.lang.String, java.lang.String)
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getActions**()
public int	**hashCode**()
public boolean	**implies**(java.security.Permission)
public java.security.PermissionCollection	**newPermissionCollection**()

3.6.27 java.net.URL

public final class java.net.URL extends java.lang.Object implements java.io.Serializable	
public	**URL**(java.lang.String, java.lang.String, int, java.lang.String) throws java.net.MalformedURLException
public	**URL**(java.lang.String, java.lang.String, java.lang.String) throws java.net.MalformedURLException
public	**URL**(java.lang.String, java.lang.String, int, java.lang.String, java.net.URLStreamHandler) throws java.net.MalformedURLException
public	**URL**(java.lang.String) throws java.net.MalformedURLException
public	**URL**(java.net.URL, java.lang.String) throws java.net.MalformedURLException
public	**URL**(java.net.URL, java.lang.String, java.net.URLStreamHandler) throws java.net.MalformedURLException
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getAuthority**()
public final java.lang.Object	**getContent**() throws java.io.IOException
public final java.lang.Object	**getContent**(java.lang.Class[]) throws java.io.IOException
public java.lang.String	**getFile**()
public java.lang.String	**getHost**()
public java.lang.String	**getPath**()
public int	**getPort**()
public java.lang.String	**getProtocol**()
public java.lang.String	**getQuery**()
public java.lang.String	**getRef**()
public java.lang.String	**getUserInfo**()
public int	**hashCode**()
public java.net.URLConnection	**openConnection**() throws java.io.IOException
public final java.io.InputStream	**openStream**() throws java.io.IOException
public boolean	**sameFile**(java.net.URL)
protected void	**set**(java.lang.String, java.lang.String, int, java.lang.String, java.lang.String)

protected void	**set**(java.lang.String, java.lang.String, int, java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String)
public static void	**setURLStreamHandlerFactory**(java.net.URLStreamHandlerFactory)
public java.lang.String	**toExternalForm**()
public java.lang.String	**toString**()

3.6.28 java.net.URLClassLoader

public class java.net.URLClassLoader extends java.security.SecureClassLoader	
public	**URLClassLoader**(java.net.URL[], java.lang.ClassLoader)
public	**URLClassLoader**(java.net.URL[])
public	**URLClassLoader**(java.net.URL[], java.lang.ClassLoader, java.net.URLStreamHandlerFactory)
protected void	**addURL**(java.net.URL)
protected java.lang.Package	**definePackage**(java.lang.String, java.util.jar.Manifest, java.net.URL) throws java.lang.IllegalArgumentException
protected java.lang.Class	**findClass**(java.lang.String) throws java.lang.ClassNotFoundException
public java.net.URL	**findResource**(java.lang.String)
public java.util.Enumeration	**findResources**(java.lang.String) throws java.io.IOException
protected java.security.PermissionCollection	**getPermissions**(java.security.CodeSource)
public java.net.URL	**getURLs**()
public static java.net.URLClassLoader	**newInstance**(java.net.URL[], java.lang.ClassLoader)
public static java.net.URLClassLoader	**newInstance**(java.net.URL[])

3.6.29 java.net.URLConnection

public abstract class java.net.URLConnection extends java.lang.Object	
protected boolean	**allowUserInteraction**
protected boolean	**connected**
protected boolean	**doInput**
protected boolean	**doOutput**
protected long	**ifModifiedSince**
protected java.net.URL	**url**
protected boolean	**useCaches**
protected	**URLConnection**(java.net.URL)
public abstract void	**connect**() throws java.io.IOException
public boolean	**getAllowUserInteraction**()
public java.lang.Object	**getContent**() throws java.io.IOException
public java.lang.Object	**getContent**(java.lang.Class[]) throws java.io.IOException
public java.lang.String	**getContentEncoding**()

All Page Within This Box

public int	**getContentLength**()
public java.lang.String	**getContentType**()
public long	**getDate**()
public static boolean	**getDefaultAllowUserInteraction**()
public boolean	**getDefaultUseCaches**()
public boolean	**getDoInput**()
public boolean	**getDoOutput**()
public long	**getExpiration**()
public static java.net.FileNameMap	**getFileNameMap**()
public java.lang.String	**getHeaderField**(java.lang.String)
public java.lang.String	**getHeaderField**(int)
public long	**getHeaderFieldDate**(java.lang.String, long)
public int	**getHeaderFieldInt**(java.lang.String, int)
public java.lang.String	**getHeaderFieldKey**(int)
public long	**getIfModifiedSince**()
public java.io.InputStream	**getInputStream**() throws java.io.IOException
public long	**getLastModified**()
public java.io.OutputStream	**getOutputStream**() throws java.io.IOException
public java.security.Permission	**getPermission**() throws java.io.IOException
public java.lang.String	**getRequestProperty**(java.lang.String)
public java.net.URL	**getURL**()
public boolean	**getUseCaches**()
protected static java.lang.String	**guessContentTypeFromName**(java.lang.String)
public static java.lang.String	**guessContentTypeFromStream**(java.io.InputStream) throws java.io.IOException
public void	**setAllowUserInteraction**(boolean)
public static void	**setContentHandlerFactory**(java.net.ContentHandlerFactory)
public static void	**setDefaultAllowUserInteraction**(boolean)
public void	**setDefaultUseCaches**(boolean)
public void	**setDoInput**(boolean)
public void	**setDoOutput**(boolean)
public static void	**setFileNameMap**(java.net.FileNameMap)
public void	**setIfModifiedSince**(long)
public void	**setRequestProperty**(java.lang.String, java.lang.String)
public void	**setUseCaches**(boolean)
public java.lang.String	**toString**()

3.6.30 java.net.URLDecoder

public class java.net.URLDecoder extends java.lang.Object

| public | **URLDecoder**() |
| public static java.lang.String | **decode**(java.lang.String) |

3.6.31 java.net.URLEncoder

| **public class java.net.URLEncoder extends java.lang.Object** | |
| public static java.lang.String | **encode**(java.lang.String) |

3.6.32 java.net.URLStreamHandler

public abstract class java.net.URLStreamHandler extends java.lang.Object	
public	**URLStreamHandler**()
protected boolean	**equals**(java.net.URL, java.net.URL)
protected int	**getDefaultPort**()
protected java.net.InetAddress	**getHostAddress**(java.net.URL)
protected int	**hashCode**(java.net.URL)
protected boolean	**hostsEqual**(java.net.URL, java.net.URL)
protected abstract java.net.URLConnection	**openConnection**(java.net.URL) throws java.io.IOException
protected void	**parseURL**(java.net.URL, java.lang.String, int, int)
protected boolean	**sameFile**(java.net.URL, java.net.URL)
protected void	**setURL**(java.net.URL, java.lang.String, java.lang.String, int, java.lang.String, java.lang.String, java.lang.String, java.lang.String, java.lang.String)
protected java.lang.String	**toExternalForm**(java.net.URL)

3.6.33 java.net.URLStreamHandlerFactory

public abstract interface java.net.URLStreamHandlerFactory	
public java.net.URLStreamHandler	**createURLStreamHandler**(java.lang.String)

3.6.34 java.net.UnknownHostException

public class java.net.UnknownHostException extends java.io.IOException	
public	**UnknownHostException**(java.lang.String)
public	**UnknownHostException**()

3.6.35 java.net.UnknownServiceException

public class java.net.UnknownServiceException extends java.io.IOException	
public	**UnknownServiceException**()
public	**UnknownServiceException**(java.lang.String)

3.7 Package java.security

3.7.1 java.security.AccessControlContext

public final class java.security.AccessControlContext extends java.lang.Object	
public	**AccessControlContext**(java.security.ProtectionDomain[])

public	**AccessControlContext**(java.security.AccessControlContext, java.security.DomainCombiner)
public void	**checkPermission**(java.security.Permission) throws java.security.AccessControlException
public boolean	**equals**(java.lang.Object)
public java.security.DomainCombiner	**getDomainCombiner**()
public int	**hashCode**()

3.7.2 java.security.AccessControlException

public class java.security.AccessControlException extends java.lang.SecurityException	
public	**AccessControlException**(java.lang.String)
public	**AccessControlException**(java.lang.String, java.security.Permission)
public java.security.Permission	**getPermission**()

3.7.3 java.security.AccessController

public final class java.security.AccessController extends java.lang.Object	
public static void	**checkPermission**(java.security.Permission) throws java.security.AccessControlException
public static java.lang.Object	**doPrivileged**(java.security.PrivilegedAction)
public static java.lang.Object	**doPrivileged**(java.security.PrivilegedAction, java.security.AccessControlContext)
public static java.lang.Object	**doPrivileged**(java.security.PrivilegedExceptionAction) throws java.security.PrivilegedActionException
public static java.lang.Object	**doPrivileged**(java.security.PrivilegedExceptionAction, java.security.AccessControlContext) throws java.security.PrivilegedActionException
public static java.security.AccessControlContext	**getContext**()

3.7.4 java.security.AlgorithmParameterGenerator

public class java.security.AlgorithmParameterGenerator extends java.lang.Object	
protected	**AlgorithmParameterGenerator**(java.security.AlgorithmParameterGeneratorSp, java.security.Provider, java.lang.String)
public final java.security.AlgorithmParameters	**generateParameters**()
public final java.lang.String	**getAlgorithm**()
public static java.security.AlgorithmParameterGenerator	**getInstance**(java.lang.String) throws java.security.NoSuchAlgorithmException
public static java.security.AlgorithmParameterGenerator	**getInstance**(java.lang.String, java.lang.String) throws java.security.NoSuchAlgorithmException, java.security.NoSuchProviderException
public final java.security.Provider	**getProvider**()
public final void	**init**(int)

public final void	**init**(int, java.security.SecureRandom)
public final void	**init**(java.security.spec.AlgorithmParameterSpec) throws java.security.InvalidAlgorithmParameterException
public final void	**init**(java.security.spec.AlgorithmParameterSpec, java.security.SecureRandom) throws java.security.InvalidAlgorithmParameterException

3.7.5 java.security.AlgorithmParameterGeneratorSpi

public abstract class java.security.AlgorithmParameterGeneratorSpi extends java.lang.Object	
public	**AlgorithmParameterGeneratorSpi**()
protected abstract java.security.AlgorithmParameters	**engineGenerateParameters**()
protected abstract void	**engineInit**(int, java.security.SecureRandom)
protected abstract void	**engineInit**(java.security.spec.AlgorithmParameterSpec, java.security.SecureRandom) throws java.security.InvalidAlgorithmParameterException

3.7.6 java.security.AlgorithmParameters

public class java.security.AlgorithmParameters extends java.lang.Object	
protected	**AlgorithmParameters**(java.security.AlgorithmParametersSpi, java.security.Provider, java.lang.String)
public final java.lang.String	**getAlgorithm**()
public final byte	**getEncoded**() throws java.io.IOException
public final byte	**getEncoded**(java.lang.String) throws java.io.IOException
public static java.security.AlgorithmParameters	**getInstance**(java.lang.String) throws java.security.NoSuchAlgorithmException
public static java.security.AlgorithmParameters	**getInstance**(java.lang.String, java.lang.String) throws java.security.NoSuchAlgorithmException, java.security.NoSuchProviderException
public final java.security.spec.AlgorithmParameterSpec	**getParameterSpec**(java.lang.Class) throws java.security.spec.InvalidParameterSpecException
public final java.security.Provider	**getProvider**()
public final void	**init**(java.security.spec.AlgorithmParameterSpec) throws java.security.spec.InvalidParameterSpecException
public final void	**init**(byte[]) throws java.io.IOException
public final void	**init**(byte[], java.lang.String) throws java.io.IOException
public final java.lang.String	**toString**()

3.7.7 java.security.AlgorithmParametersSpi

public abstract class java.security.AlgorithmParametersSpi extends java.lang.Object	
public	**AlgorithmParametersSpi**()
protected abstract byte	**engineGetEncoded**() throws java.io.IOException
protected abstract byte	**engineGetEncoded**(java.lang.String) throws java.io.IOException
protected abstract	**engineGetParameterSpec**(java.lang.Class) throws

All Page Within This Box

java.security.spec.AlgorithmParameterSpec	java.security.spec.InvalidParameterSpecException
protected abstract void	**engineInit**(java.security.spec.AlgorithmParameterSpec) throws java.security.spec.InvalidParameterSpecException
protected abstract void	**engineInit**(byte[]) throws java.io.IOException
protected abstract void	**engineInit**(byte[], java.lang.String) throws java.io.IOException
protected abstract java.lang.String	**engineToString**()

3.7.8 java.security.AllPermission

public final class java.security.AllPermission extends java.security.Permission	
public	**AllPermission**()
public	**AllPermission**(java.lang.String, java.lang.String)
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getActions**()
public int	**hashCode**()
public boolean	**implies**(java.security.Permission)
public java.security.PermissionCollection	**newPermissionCollection**()

3.7.9 java.security.BasicPermission

public abstract class java.security.BasicPermission extends java.security.Permission implements java.io.Serializable	
public	**BasicPermission**(java.lang.String)
public	**BasicPermission**(java.lang.String, java.lang.String)
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getActions**()
public int	**hashCode**()
public boolean	**implies**(java.security.Permission)
public java.security.PermissionCollection	**newPermissionCollection**()

3.7.10 java.security.Certificate

public abstract interface java.security.Certificate	
public void	**decode**(java.io.InputStream) throws java.security.KeyException, java.io.IOException
public void	**encode**(java.io.OutputStream) throws java.security.KeyException, java.io.IOException
public java.lang.String	**getFormat**()
public java.security.Principal	**getGuarantor**()
public java.security.Principal	**getPrincipal**()
public java.security.PublicKey	**getPublicKey**()

All Page Within This Box

public java.lang.String	**toString**(boolean)

3.7.11 java.security.CodeSource

public class java.security.CodeSource extends java.lang.Object implements java.io.Serializable	
public	**CodeSource**(java.net.URL, java.security.cert.Certificate[])
public boolean	**equals**(java.lang.Object)
public final java.security.cert.Certificate	**getCertificates**()
public final java.net.URL	**getLocation**()
public int	**hashCode**()
public boolean	**implies**(java.security.CodeSource)
public java.lang.String	**toString**()

3.7.12 java.security.DigestException

public class java.security.DigestException extends java.security.GeneralSecurityException	
public	**DigestException**()
public	**DigestException**(java.lang.String)

3.7.13 java.security.DigestInputStream

public class java.security.DigestInputStream extends java.io.FilterInputStream	
protected java.security.MessageDigest	**digest**
public	**DigestInputStream**(java.io.InputStream, java.security.MessageDigest)
public java.security.MessageDigest	**getMessageDigest**()
public void	**on**(boolean)
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public void	**setMessageDigest**(java.security.MessageDigest)
public java.lang.String	**toString**()

3.7.14 java.security.DigestOutputStream

public class java.security.DigestOutputStream extends java.io.FilterOutputStream	
protected java.security.MessageDigest	**digest**
public	**DigestOutputStream**(java.io.OutputStream, java.security.MessageDigest)
public java.security.MessageDigest	**getMessageDigest**()
public void	**on**(boolean)
public void	**setMessageDigest**(java.security.MessageDigest)
public java.lang.String	**toString**()
public void	**write**(int) throws java.io.IOException

All Page Within This Box

public void	**write**(byte[], int, int) throws java.io.IOException

3.7.15 java.security.DomainCombiner

public abstract interface java.security.DomainCombiner	
public java.security.ProtectionDomain	**combine**(java.security.ProtectionDomain[], java.security.ProtectionDomain[])

3.7.16 java.security.GeneralSecurityException

public class java.security.GeneralSecurityException extends java.lang.Exception	
public	**GeneralSecurityException**()
public	**GeneralSecurityException**(java.lang.String)

3.7.17 java.security.Guard

public abstract interface java.security.Guard	
public void	**checkGuard**(java.lang.Object) throws java.lang.SecurityException

3.7.18 java.security.GuardedObject

public class java.security.GuardedObject extends java.lang.Object implements java.io.Serializable	
public	**GuardedObject**(java.lang.Object, java.security.Guard)
public java.lang.Object	**getObject**() throws java.lang.SecurityException

3.7.19 java.security.Identity

public abstract class java.security.Identity extends java.lang.Object implements java.security.Principal, java.io.Serializable	
protected	**Identity**()
public	**Identity**(java.lang.String, java.security.IdentityScope) throws java.security.KeyManagementException
public	**Identity**(java.lang.String)
public void	**addCertificate**(java.security.Certificate) throws java.security.KeyManagementException
public java.security.Certificate	**certificates**()
public final boolean	**equals**(java.lang.Object)
public java.lang.String	**getInfo**()
public final java.lang.String	**getName**()
public java.security.PublicKey	**getPublicKey**()
public final java.security.IdentityScope	**getScope**()
public int	**hashCode**()
protected boolean	**identityEquals**(java.security.Identity)
public void	**removeCertificate**(java.security.Certificate) throws java.security.KeyManagementException
public void	**setInfo**(java.lang.String)
public void	**setPublicKey**(java.security.PublicKey) throws

	java.security.KeyManagementException
public java.lang.String	**toString**()
public java.lang.String	**toString**(boolean)

3.7.20 java.security.IdentityScope

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public abstract class java.security.IdentityScope extends java.security.Identity	
protected	**IdentityScope**()
public	**IdentityScope**(java.lang.String)
public	**IdentityScope**(java.lang.String, java.security.IdentityScope) throws java.security.KeyManagementException
public abstract void	**addIdentity**(java.security.Identity) throws java.security.KeyManagementException
public abstract java.security.Identity	**getIdentity**(java.lang.String)
public java.security.Identity	**getIdentity**(java.security.Principal)
public abstract java.security.Identity	**getIdentity**(java.security.PublicKey)
public static java.security.IdentityScope	**getSystemScope**()
public abstract java.util.Enumeration	**identities**()
public abstract void	**removeIdentity**(java.security.Identity) throws java.security.KeyManagementException
protected static void	**setSystemScope**(java.security.IdentityScope)
public abstract int	**size**()
public java.lang.String	**toString**()

3.7.21 java.security.InvalidAlgorithmParameterException

public class java.security.InvalidAlgorithmParameterException extends java.security.GeneralSecurityException	
public	**InvalidAlgorithmParameterException**()
public	**InvalidAlgorithmParameterException**(java.lang.String)

3.7.22 java.security.InvalidKeyException

public class java.security.InvalidKeyException extends java.security.KeyException	
public	**InvalidKeyException**()
public	**InvalidKeyException**(java.lang.String)

3.7.23 java.security.InvalidParameterException

public class java.security.InvalidParameterException extends java.lang.IllegalArgumentException	
public	**InvalidParameterException**()
public	**InvalidParameterException**(java.lang.String)

All Page Within This Box

3.7.24 java.security.Key

public abstract interface java.security.Key extends java.io.Serializable	
public static final long	**serialVersionUID**
public java.lang.String	**getAlgorithm**()
public byte	**getEncoded**()
public java.lang.String	**getFormat**()

3.7.25 java.security.KeyException

public class java.security.KeyException extends java.security.GeneralSecurityException	
public	**KeyException**()
public	**KeyException**(java.lang.String)

3.7.26 java.security.KeyFactory

public class java.security.KeyFactory extends java.lang.Object	
protected	**KeyFactory**(java.security.KeyFactorySpi, java.security.Provider, java.lang.String)
public final java.security.PrivateKey	**generatePrivate**(java.security.spec.KeySpec) throws java.security.spec.InvalidKeySpecException
public final java.security.PublicKey	**generatePublic**(java.security.spec.KeySpec) throws java.security.spec.InvalidKeySpecException
public final java.lang.String	**getAlgorithm**()
public static java.security.KeyFactory	**getInstance**(java.lang.String) throws java.security.NoSuchAlgorithmException
public static java.security.KeyFactory	**getInstance**(java.lang.String, java.lang.String) throws java.security.NoSuchAlgorithmException, java.security.NoSuchProviderException
public final java.security.spec.KeySpec	**getKeySpec**(java.security.Key, java.lang.Class) throws java.security.spec.InvalidKeySpecException
public final java.security.Provider	**getProvider**()
public final java.security.Key	**translateKey**(java.security.Key) throws java.security.InvalidKeyException

3.7.27 java.security.KeyFactorySpi

public abstract class java.security.KeyFactorySpi extends java.lang.Object	
public	**KeyFactorySpi**()
protected abstract java.security.PrivateKey	**engineGeneratePrivate**(java.security.spec.KeySpec) throws java.security.spec.InvalidKeySpecException
protected abstract java.security.PublicKey	**engineGeneratePublic**(java.security.spec.KeySpec) throws java.security.spec.InvalidKeySpecException
protected abstract java.security.spec.KeySpec	**engineGetKeySpec**(java.security.Key, java.lang.Class) throws java.security.spec.InvalidKeySpecException
protected abstract java.security.Key	**engineTranslateKey**(java.security.Key) throws java.security.InvalidKeyException

All Page Within This Box

3.7.28 java.security.KeyManagementException

public class java.security.KeyManagementException extends java.security.KeyException	
public	**KeyManagementException**()
public	**KeyManagementException**(java.lang.String)

3.7.29 java.security.KeyPair

public final class java.security.KeyPair extends java.lang.Object implements java.io.Serializable	
public	**KeyPair**(java.security.PublicKey, java.security.PrivateKey)
public java.security.PrivateKey	**getPrivate**()
public java.security.PublicKey	**getPublic**()

3.7.30 java.security.KeyPairGenerator

public abstract class java.security.KeyPairGenerator extends java.security.KeyPairGeneratorSpi	
protected	**KeyPairGenerator**(java.lang.String)
public final java.security.KeyPair	**genKeyPair**()
public java.security.KeyPair	**generateKeyPair**()
public java.lang.String	**getAlgorithm**()
public static java.security.KeyPairGenerator	**getInstance**(java.lang.String) throws java.security.NoSuchAlgorithmException
public static java.security.KeyPairGenerator	**getInstance**(java.lang.String, java.lang.String) throws java.security.NoSuchAlgorithmException, java.security.NoSuchProviderException
public final java.security.Provider	**getProvider**()
public void	**initialize**(int)
public void	**initialize**(int, java.security.SecureRandom)
public void	**initialize**(java.security.spec.AlgorithmParameterSpec) throws java.security.InvalidAlgorithmParameterException
public void	**initialize**(java.security.spec.AlgorithmParameterSpec, java.security.SecureRandom) throws java.security.InvalidAlgorithmParameterException

3.7.31 java.security.KeyPairGeneratorSpi

public abstract class java.security.KeyPairGeneratorSpi extends java.lang.Object	
public	**KeyPairGeneratorSpi**()
public abstract java.security.KeyPair	**generateKeyPair**()
public abstract void	**initialize**(int, java.security.SecureRandom)
public void	**initialize**(java.security.spec.AlgorithmParameterSpec, java.security.SecureRandom) throws java.security.InvalidAlgorithmParameterException

3.7.32 java.security.KeyStore

public class java.security.KeyStore extends java.lang.Object	

All Page Within This Box

protected	**KeyStore**(java.security.KeyStoreSpi, java.security.Provider, java.lang.String)
public final java.util.Enumeration	**aliases**() throws java.security.KeyStoreException
public final boolean	**containsAlias**(java.lang.String) throws java.security.KeyStoreException
public final void	**deleteEntry**(java.lang.String) throws java.security.KeyStoreException
public final java.security.cert.Certificate	**getCertificate**(java.lang.String) throws java.security.KeyStoreException
public final java.lang.String	**getCertificateAlias**(java.security.cert.Certificate) throws java.security.KeyStoreException
public final java.security.cert.Certificate	**getCertificateChain**(java.lang.String) throws java.security.KeyStoreException
public final java.util.Date	**getCreationDate**(java.lang.String) throws java.security.KeyStoreException
public static final java.lang.String	**getDefaultType**()
public static java.security.KeyStore	**getInstance**(java.lang.String) throws java.security.KeyStoreException
public static java.security.KeyStore	**getInstance**(java.lang.String, java.lang.String) throws java.security.KeyStoreException, java.security.NoSuchProviderException
public final java.security.Key	**getKey**(java.lang.String, char[]) throws java.security.KeyStoreException, java.security.NoSuchAlgorithmException, java.security.UnrecoverableKeyException
public final java.security.Provider	**getProvider**()
public final java.lang.String	**getType**()
public final boolean	**isCertificateEntry**(java.lang.String) throws java.security.KeyStoreException
public final boolean	**isKeyEntry**(java.lang.String) throws java.security.KeyStoreException
public final void	**load**(java.io.InputStream, char[]) throws java.io.IOException, java.security.NoSuchAlgorithmException, java.security.cert.CertificateException
public final void	**setCertificateEntry**(java.lang.String, java.security.cert.Certificate) throws java.security.KeyStoreException
public final void	**setKeyEntry**(java.lang.String, java.security.Key, char[], java.security.cert.Certificate[]) throws java.security.KeyStoreException
public final void	**setKeyEntry**(java.lang.String, byte[], java.security.cert.Certificate[]) throws java.security.KeyStoreException
public final int	**size**() throws java.security.KeyStoreException
public final void	**store**(java.io.OutputStream, char[]) throws java.security.KeyStoreException, java.io.IOException, java.security.NoSuchAlgorithmException, java.security.cert.CertificateException

3.7.33 java.security.KeyStoreException

public class java.security.KeyStoreException extends java.security.GeneralSecurityException	
public	**KeyStoreException**()
public	**KeyStoreException**(java.lang.String)

3.7.34 java.security.KeyStoreSpi

public abstract class java.security.KeyStoreSpi extends java.lang.Object

public	**KeyStoreSpi**()
public abstract java.util.Enumeration	**engineAliases**()
public abstract boolean	**engineContainsAlias**(java.lang.String)
public abstract void	**engineDeleteEntry**(java.lang.String) throws java.security.KeyStoreException
public abstract java.security.cert.Certificate	**engineGetCertificate** (java.lang.String)
public abstract java.lang.String	**engineGetCertificateAlias**(java.security.cert.Certificate)
public abstract java.security.cert.Certificate	**engineGetCertificateChain**(java.lang.String)
public abstract java.util.Date	**engineGetCreationDate** (java.lang.String)
public abstract java.security.Key	**engineGetKey**(java.lang.String, char[]) throws java.security.NoSuchAlgorithmException, java.security.UnrecoverableKeyException
public abstract boolean	**engineIsCertificateEntry**(java.lang.String)
public abstract boolean	**engineIsKeyEntry**(java.lang.String)
public abstract void	**engineLoad**(java.io.InputStream, char[]) throws java.io.IOException, java.security.NoSuchAlgorithmException, java.security.cert.CertificateException
public abstract void	**engineSetCertificateEntry**(java.lang.String, java.security.cert.Certificate) throws java.security.KeyStoreException
public abstract void	**engineSetKeyEntry**(java.lang.String, java.security.Key, char[], java.security.cert.Certificate[]) throws java.security.KeyStoreException
public abstract void	**engineSetKeyEntry**(java.lang.String, byte[], java.security.cert.Certificate[]) throws java.security.KeyStoreException
public abstract int	**engineSize**()
public abstract void	**engineStore** (java.io.OutputStream, char[]) throws java.io.IOException, java.security.NoSuchAlgorithmException, java.security.cert.CertificateException

3.7.35 java.security.MessageDigest

public abstract class java.security.MessageDigest extends java.security.MessageDigestSpi	
protected	**MessageDigest** (java.lang.String)
public java.lang.Object	**clone**() throws java.lang.CloneNotSupportedException
public byte	**digest**()
public int	**digest** (byte[], int, int) throws java.security.DigestException
public byte	**digest** (byte[])
public final java.lang.String	**getAlgorithm**()
public final int	**getDigestLength**()
public static java.security.MessageDigest	**getInstance** (java.lang.String) throws java.security.NoSuchAlgorithmException
public static java.security.MessageDigest	**getInstance** (java.lang.String, java.lang.String) throws java.security.NoSuchAlgorithmException,

All Page Within This Box

	java.security.NoSuchProviderException
public final java.security.Provider	**getProvider**()
public static boolean	**isEqual**(byte[], byte[])
public void	**reset**()
public java.lang.String	**toString**()
public void	**update**(byte)
public void	**update**(byte[], int, int)
public void	**update**(byte[])

3.7.36 java.security.MessageDigestSpi

public abstract class java.security.MessageDigestSpi extends java.lang.Object	
public	**MessageDigestSpi**()
public java.lang.Object	**clone**() throws java.lang.CloneNotSupportedException
protected abstract byte	**engineDigest**()
protected int	**engineDigest**(byte[], int, int) throws java.security.DigestException
protected int	**engineGetDigestLength**()
protected abstract void	**engineReset**()
protected abstract void	**engineUpdate**(byte)
protected abstract void	**engineUpdate**(byte[], int, int)

3.7.37 java.security.NoSuchAlgorithmException

public class java.security.NoSuchAlgorithmException extends java.security.GeneralSecurityException	
public	**NoSuchAlgorithmException**()
public	**NoSuchAlgorithmException**(java.lang.String)

3.7.38 java.security.NoSuchProviderException

public class java.security.NoSuchProviderException extends java.security.GeneralSecurityException	
public	**NoSuchProviderException**()
public	**NoSuchProviderException**(java.lang.String)

3.7.39 java.security.Permission

public abstract class java.security.Permission extends java.lang.Object implements java.security.Guard, java.io.Serializable	
public	**Permission**(java.lang.String)
public void	**checkGuard**(java.lang.Object) throws java.lang.SecurityException
public abstract boolean	**equals**(java.lang.Object)
public abstract java.lang.String	**getActions**()
public final java.lang.String	**getName**()
public abstract int	**hashCode**()
public abstract boolean	**implies**(java.security.Permission)
public	**newPermissionCollection**()

java.security.PermissionCollection	
public java.lang.String	**toString**()

3.7.40 java.security.PermissionCollection

public abstract class java.security.PermissionCollection extends java.lang.Object implements java.io.Serializable	
public	**PermissionCollection**()
public abstract void	**add**(java.security.Permission)
public abstract java.util.Enumeration	**elements**()
public abstract boolean	**implies**(java.security.Permission)
public boolean	**isReadOnly**()
public void	**setReadOnly**()
public java.lang.String	**toString**()

3.7.41 java.security.Permissions

public final class java.security.Permissions extends java.security.PermissionCollection implements java.io.Serializable	
public	**Permissions**()
public void	**add**(java.security.Permission)
public java.util.Enumeration	**elements**()
public boolean	**implies**(java.security.Permission)

3.7.42 java.security.Policy

public abstract class java.security.Policy extends java.lang.Object	
public	**Policy**()
public abstract java.security.PermissionCollection	**getPermissions**(java.security.CodeSource)
public static java.security.Policy	**getPolicy**()
public abstract void	**refresh**()
public static void	**setPolicy**(java.security.Policy)

3.7.43 java.security.Principal

public abstract interface java.security.Principal	
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getName**()
public int	**hashCode**()
public java.lang.String	**toString**()

3.7.44 java.security.PrivateKey

public abstract interface java.security.PrivateKey extends java.security.Key

public static final long	**serialVersionUID**

3.7.45 java.security.PrivilegedAction

public abstract interface java.security.PrivilegedAction	
public java.lang.Object	**run**()

3.7.46 java.security.PrivilegedActionException

public class java.security.PrivilegedActionException extends java.lang.Exception	
public	**PrivilegedActionException**(java.lang.Exception)
public java.lang.Exception	**getException**()
public void	**printStackTrace**()
public void	**printStackTrace**(java.io.PrintStream)
public void	**printStackTrace**(java.io.PrintWriter)
public java.lang.String	**toString**()

3.7.47 java.security.PrivilegedExceptionAction

public abstract interface java.security.PrivilegedExceptionAction	
public java.lang.Object	**run**() throws java.lang.Exception

3.7.48 java.security.ProtectionDomain

public class java.security.ProtectionDomain extends java.lang.Object	
public	**ProtectionDomain**(java.security.CodeSource, java.security.PermissionCollection)
public final java.security.CodeSource	**getCodeSource**()
public final java.security.PermissionCollection	**getPermissions**()
public boolean	**implies**(java.security.Permission)
public java.lang.String	**toString**()

3.7.49 java.security.Provider

public abstract class java.security.Provider extends java.util.Properties	
protected	**Provider**(java.lang.String, double, java.lang.String)
public void	**clear**()
public java.util.Set	**entrySet**()
public java.lang.String	**getInfo**()
public java.lang.String	**getName**()
public double	**getVersion**()
public java.util.Set	**keySet**()
public void	**load**(java.io.InputStream) throws java.io.IOException
public java.lang.Object	**put**(java.lang.Object, java.lang.Object)

All Page Within This Box

public void	**putAll**(java.util.Map)
public java.lang.Object	**remove**(java.lang.Object)
public java.lang.String	**toString**()
public java.util.Collection	**values**()

3.7.50 java.security.ProviderException

public class java.security.ProviderException extends java.lang.RuntimeException	
public	**ProviderException**()
public	**ProviderException**(java.lang.String)

3.7.51 java.security.PublicKey

public abstract interface java.security.PublicKey extends java.security.Key	
public static final long	**serialVersionUID**

3.7.52 java.security.SecureClassLoader

public class java.security.SecureClassLoader extends java.lang.ClassLoader	
protected	**SecureClassLoader**(java.lang.ClassLoader)
protected	**SecureClassLoader**()
protected final java.lang.Class	**defineClass**(java.lang.String, byte[], int, int, java.security.CodeSource)
protected java.security.PermissionCollection	**getPermissions**(java.security.CodeSource)

3.7.53 java.security.SecureRandom

public class java.security.SecureRandom extends java.util.Random	
public	**SecureRandom**()
public	**SecureRandom**(byte[])
protected	**SecureRandom**(java.security.SecureRandomSpi, java.security.Provider)
public byte	**generateSeed**(int)
public static java.security.SecureRandom	**getInstance**(java.lang.String) throws java.security.NoSuchAlgorithmException
public static java.security.SecureRandom	**getInstance**(java.lang.String, java.lang.String) throws java.security.NoSuchAlgorithmException, java.security.NoSuchProviderException
public final java.security.Provider	**getProvider**()
public static byte	**getSeed**(int)
protected final int	**next**(int)
public void	**nextBytes**(byte[])
public void	**setSeed**(byte[])
public void	**setSeed**(long)

3.7.54 java.security.SecureRandomSpi

public abstract class java.security.SecureRandomSpi extends java.lang.Object implements java.io.Serializable	
public	**SecureRandomSpi**()
protected abstract byte	**engineGenerateSeed**(int)
protected abstract void	**engineNextBytes**(byte[])
protected abstract void	**engineSetSeed**(byte[])

3.7.55 java.security.Security

public final class java.security.Security extends java.lang.Object	
public static int	**addProvider**(java.security.Provider)
public static java.lang.String	**getProperty**(java.lang.String)
public static java.security.Provider	**getProvider**(java.lang.String)
public static java.security.Provider	**getProviders**()
public static java.security.Provider	**getProviders**(java.lang.String)
public static java.security.Provider	**getProviders**(java.util.Map)
public static int	**insertProviderAt**(java.security.Provider, int)
public static void	**removeProvider**(java.lang.String)
public static void	**setProperty**(java.lang.String, java.lang.String)

3.7.56 java.security.SecurityPermission

public final class java.security.SecurityPermission extends java.security.BasicPermission	
public	**SecurityPermission**(java.lang.String)
public	**SecurityPermission**(java.lang.String, java.lang.String)

3.7.57 java.security.Signature

public abstract class java.security.Signature extends java.security.SignatureSpi	
protected static final int	**SIGN**
protected static final int	**UNINITIALIZED**
protected static final int	**VERIFY**
protected int	**state**
protected	**Signature**(java.lang.String)
public java.lang.Object	**clone**() throws java.lang.CloneNotSupportedException
public final java.lang.String	**getAlgorithm**()
public static java.security.Signature	**getInstance**(java.lang.String) throws java.security.NoSuchAlgorithmException
public static java.security.Signature	**getInstance**(java.lang.String, java.lang.String) throws java.security.NoSuchAlgorithmException.

All Page Within This Box

	java.security.NoSuchProviderException
public final java.security.Provider	**getProvider**()
public final void	**initSign**(java.security.PrivateKey) throws java.security.InvalidKeyException
public final void	**initSign**(java.security.PrivateKey, java.security.SecureRandom) throws java.security.InvalidKeyException
public final void	**initVerify**(java.security.PublicKey) throws java.security.InvalidKeyException
public final void	**initVerify**(java.security.cert.Certificate) throws java.security.InvalidKeyException
public final void	**setParameter**(java.security.spec.AlgorithmParameterSpec) throws java.security.InvalidAlgorithmParameterException
public final byte	**sign**() throws java.security.SignatureException
public final int	**sign**(byte[], int, int) throws java.security.SignatureException
public java.lang.String	**toString**()
public final void	**update**(byte) throws java.security.SignatureException
public final void	**update**(byte[]) throws java.security.SignatureException
public final void	**update**(byte[], int, int) throws java.security.SignatureException
public final boolean	**verify**(byte[]) throws java.security.SignatureException

3.7.58 java.security.SignatureException

public class java.security.SignatureException extends java.security.GeneralSecurityException	
public	**SignatureException**()
public	**SignatureException**(java.lang.String)

3.7.59 java.security.SignatureSpi

public abstract class java.security.SignatureSpi extends java.lang.Object	
protected java.security.SecureRandom	**appRandom**
public	**SignatureSpi**()
public java.lang.Object	**clone**() throws java.lang.CloneNotSupportedException
protected abstract void	**engineInitSign**(java.security.PrivateKey) throws java.security.InvalidKeyException
protected void	**engineInitSign**(java.security.PrivateKey, java.security.SecureRandom) throws java.security.InvalidKeyException
protected abstract void	**engineInitVerify**(java.security.PublicKey) throws java.security.InvalidKeyException
protected void	**engineSetParameter**(java.security.spec.AlgorithmParameterSpec) throws java.security.InvalidAlgorithmParameterException
protected abstract byte	**engineSign**() throws java.security.SignatureException
protected int	**engineSign**(byte[], int, int) throws java.security.SignatureException
protected abstract void	**engineUpdate**(byte) throws java.security.SignatureException
protected abstract void	**engineUpdate**(byte[], int, int) throws java.security.SignatureException
protected abstract boolean	**engineVerify**(byte[]) throws java.security.SignatureException

All Page Within This Box

OSGi

3.7.60 java.security.SignedObject

public final class java.security.SignedObject extends java.lang.Object implements java.io.Serializable	
public	**SignedObject**(java.io.Serializable, java.security.PrivateKey, java.security.Signature) throws java.io.IOException, java.security.InvalidKeyException, java.security.SignatureException
public java.lang.String	**getAlgorithm**()
public java.lang.Object	**getObject**() throws java.io.IOException, java.lang.ClassNotFoundException
public byte	**getSignature**()
public boolean	**verify**(java.security.PublicKey, java.security.Signature) throws java.security.InvalidKeyException, java.security.SignatureException

3.7.61 java.security.Signer

public abstract class java.security.Signer extends java.security.Identity	
protected	**Signer**()
public	**Signer**(java.lang.String)
public	**Signer**(java.lang.String, java.security.IdentityScope) throws java.security.KeyManagementException
public java.security.PrivateKey	**getPrivateKey**()
public final void	**setKeyPair**(java.security.KeyPair) throws java.security.InvalidParameterException, java.security.KeyException
public java.lang.String	**toString**()

3.7.62 java.security.UnrecoverableKeyException

public class java.security.UnrecoverableKeyException extends java.security.GeneralSecurityException	
public	**UnrecoverableKeyException**()
public	**UnrecoverableKeyException**(java.lang.String)

3.7.63 java.security.UnresolvedPermission

public final class java.security.UnresolvedPermission extends java.security.Permission implements java.io.Serializable	
public	**UnresolvedPermission**(java.lang.String, java.lang.String, java.lang.String, java.security.cert.Certificate[])
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getActions**()
public int	**hashCode**()
public boolean	**implies**(java.security.Permission)
public java.security.PermissionCollection	**newPermissionCollection**()
public java.lang.String	**toString**()

All Page Within This Box

3.8 Package java.security.acl

3.8.1 java.security.acl.Acl

public abstract interface java.security.acl.Acl extends java.security.acl.Owner	
public boolean	**addEntry**(java.security.Principal, java.security.acl.AclEntry) throws java.security.acl.NotOwnerException
public boolean	**checkPermission**(java.security.Principal, java.security.acl.Permission)
public java.util.Enumeration	**entries**()
public java.lang.String	**getName**()
public java.util.Enumeration	**getPermissions**(java.security.Principal)
public boolean	**removeEntry**(java.security.Principal, java.security.acl.AclEntry) throws java.security.acl.NotOwnerException
public void	**setName**(java.security.Principal, java.lang.String) throws java.security.acl.NotOwnerException
public java.lang.String	**toString**()

3.8.2 java.security.acl.AclEntry

public abstract interface java.security.acl.AclEntry extends java.lang.Cloneable	
public boolean	**addPermission**(java.security.acl.Permission)
public boolean	**checkPermission**(java.security.acl.Permission)
public java.lang.Object	**clone**()
public java.security.Principal	**getPrincipal**()
public boolean	**isNegative**()
public java.util.Enumeration	**permissions**()
public boolean	**removePermission**(java.security.acl.Permission)
public void	**setNegativePermissions**()
public boolean	**setPrincipal**(java.security.Principal)
public java.lang.String	**toString**()

3.8.3 java.security.acl.AclNotFoundException

public class java.security.acl.AclNotFoundException extends java.lang.Exception	
public	**AclNotFoundException**()

3.8.4 java.security.acl.Group

public abstract interface java.security.acl.Group extends java.security.Principal	
public boolean	**addMember**(java.security.Principal)
public boolean	**isMember**(java.security.Principal)
public java.util.Enumeration	**members**()
public boolean	**removeMember**(java.security.Principal)

3.8.5 java.security.acl.LastOwnerException

public class java.security.acl.LastOwnerException extends java.lang.Exception

All Page Within This Box

public	**LastOwnerException**()

3.8.6 java.security.acl.NotOwnerException

public class java.security.acl.NotOwnerException extends java.lang.Exception	
public	**NotOwnerException**()

3.8.7 java.security.acl.Owner

public abstract interface java.security.acl.Owner	
public boolean	**addOwner**(java.security.Principal, java.security.Principal) throws java.security.acl.NotOwnerException
public boolean	**deleteOwner**(java.security.Principal, java.security.Principal) throws java.security.acl.NotOwnerException, java.security.acl.LastOwnerException
public boolean	**isOwner**(java.security.Principal)

3.8.8 java.security.acl.Permission

public abstract interface java.security.acl.Permission	
public boolean	**equals**(java.lang.Object)
public java.lang.String	**toString**()

3.9 Package java.security.cert

3.9.1 java.security.cert.CRL

public abstract class java.security.cert.CRL extends java.lang.Object	
protected	**CRL**(java.lang.String)
public final java.lang.String	**getType**()
public abstract boolean	**isRevoked**(java.security.cert.Certificate)
public abstract java.lang.String	**toString**()

3.9.2 java.security.cert.CRLException

public class java.security.cert.CRLException extends java.security.GeneralSecurityException	
public	**CRLException**()
public	**CRLException**(java.lang.String)

3.9.3 java.security.cert.Certificate

public abstract class java.security.cert.Certificate extends java.lang.Object implements java.io.Serializable	
protected	**Certificate**(java.lang.String)
public boolean	**equals**(java.lang.Object)
public abstract byte	**getEncoded**() throws java.security.cert.CertificateEncodingException
public abstract java.security.PublicKey	**getPublicKey**()
public final java.lang.String	**getType**()
public int	**hashCode**()

All Page Within This Box

public abstract java.lang.String	**toString**()
public abstract void	**verify**(java.security.PublicKey) throws java.security.cert.CertificateException, java.security.NoSuchAlgorithmException, java.security.InvalidKeyException, java.security.NoSuchProviderException, java.security.SignatureException
public abstract void	**verify**(java.security.PublicKey, java.lang.String) throws java.security.cert.CertificateException, java.security.NoSuchAlgorithmException, java.security.InvalidKeyException, java.security.NoSuchProviderException, java.security.SignatureException
protected java.lang.Object	**writeReplace**() throws java.io.ObjectStreamException

3.9.4 java.security.cert.Certificate.CertificateRep

public class java.security.cert.Certificate.CertificateRep extends java.lang.Object implements java.io.Serializable	
protected	**Certificate.CertificateRep**(java.lang.String, byte[])
protected java.lang.Object	**readResolve**() throws java.io.ObjectStreamException

3.9.5 java.security.cert.CertificateEncodingException

public class java.security.cert.CertificateEncodingException extends java.security.cert.CertificateException	
public	**CertificateEncodingException**()
public	**CertificateEncodingException**(java.lang.String)

3.9.6 java.security.cert.CertificateException

public class java.security.cert.CertificateException extends java.security.GeneralSecurityException	
public	**CertificateException**()
public	**CertificateException**(java.lang.String)

3.9.7 java.security.cert.CertificateExpiredException

public class java.security.cert.CertificateExpiredException extends java.security.cert.CertificateException	
public	**CertificateExpiredException**()
public	**CertificateExpiredException**(java.lang.String)

3.9.8 java.security.cert.CertificateFactory

public class java.security.cert.CertificateFactory extends java.lang.Object	
protected	**CertificateFactory**(java.security.cert.CertificateFactorySpi, java.security.Provider, java.lang.String)
public final java.security.cert.CRL	**generateCRL**(java.io.InputStream) throws java.security.cert.CRLException
public final java.util.Collection	**generateCRLs**(java.io.InputStream) throws java.security.cert.CRLException
public final java.security.cert.Certificate	**generateCertificate**(java.io.InputStream) throws java.security.cert.CertificateException
public final java.util.Collection	**generateCertificates**(java.io.InputStream) throws java.security.cert.CertificateException
public static final java.security.cert.CertificateFactor	**getInstance**(java.lang.String) throws java.security.cert.CertificateException

All Page Within This Box

y	
public static final java.security.cert.CertificateFactory	**getInstance**(java.lang.String, java.lang.String) throws java.security.cert.CertificateException, java.security.NoSuchProviderException
public final java.security.Provider	**getProvider**()
public final java.lang.String	**getType**()

3.9.9 java.security.cert.CertificateFactorySpi

public abstract class java.security.cert.CertificateFactorySpi extends java.lang.Object	
public	**CertificateFactorySpi**()
public abstract java.security.cert.CRL	**engineGenerateCRL**(java.io.InputStream) throws java.security.cert.CRLException
public abstract java.util.Collection	**engineGenerateCRLs**(java.io.InputStream) throws java.security.cert.CRLException
public abstract java.security.cert.Certificate	**engineGenerateCertificate**(java.io.InputStream) throws java.security.cert.CertificateException
public abstract java.util.Collection	**engineGenerateCertificates**(java.io.InputStream) throws java.security.cert.CertificateException

3.9.10 java.security.cert.CertificateNotYetValidException

public class java.security.cert.CertificateNotYetValidException extends java.security.cert.CertificateException	
public	**CertificateNotYetValidException**()
public	**CertificateNotYetValidException**(java.lang.String)

3.9.11 java.security.cert.CertificateParsingException

public class java.security.cert.CertificateParsingException extends java.security.cert.CertificateException	
public	**CertificateParsingException**()
public	**CertificateParsingException**(java.lang.String)

3.9.12 java.security.cert.X509CRL

public abstract class java.security.cert.X509CRL extends java.security.cert.CRL implements java.security.cert.X509Extension	
protected	**X509CRL**()
public boolean	**equals**(java.lang.Object)
public abstract java.util.Set	**getCriticalExtensionOIDs**()
public abstract byte	**getEncoded**() throws java.security.cert.CRLException
public abstract byte	**getExtensionValue**(java.lang.String)
public abstract java.security.Principal	**getIssuerDN**()
public abstract java.util.Date	**getNextUpdate**()
public abstract java.util.Set	**getNonCriticalExtensionOIDs**()
public abstract	**getRevokedCertificate**(java.math.BigInteger)

All Page Within This Box

java.security.cert.X509CRLEntry	
public abstract java.util.Set	**getRevokedCertificates**()
public abstract java.lang.String	**getSigAlgName**()
public abstract java.lang.String	**getSigAlgOID**()
public abstract byte	**getSigAlgParams**()
public abstract byte	**getSignature**()
public abstract byte	**getTBSCertList**() throws java.security.cert.CRLException
public abstract java.util.Date	**getThisUpdate**()
public abstract int	**getVersion**()
public abstract boolean	**hasUnsupportedCriticalExtension**()
public int	**hashCode**()
public abstract void	**verify**(java.security.PublicKey) throws java.security.cert.CRLException, java.security.NoSuchAlgorithmException, java.security.InvalidKeyException, java.security.NoSuchProviderException, java.security.SignatureException
public abstract void	**verify**(java.security.PublicKey, java.lang.String) throws java.security.cert.CRLException, java.security.NoSuchAlgorithmException, java.security.InvalidKeyException, java.security.NoSuchProviderException, java.security.SignatureException

3.9.13 java.security.cert.X509CRLEntry

public abstract class java.security.cert.X509CRLEntry extends java.lang.Object implements java.security.cert.X509Extension	
public	**X509CRLEntry**()
public boolean	**equals**(java.lang.Object)
public abstract java.util.Set	**getCriticalExtensionOIDs**()
public abstract byte	**getEncoded**() throws java.security.cert.CRLException
public abstract byte	**getExtensionValue**(java.lang.String)
public abstract java.util.Set	**getNonCriticalExtensionOIDs**()
public abstract java.util.Date	**getRevocationDate**()
public abstract java.math.BigInteger	**getSerialNumber**()
public abstract boolean	**hasExtensions**()
public abstract boolean	**hasUnsupportedCriticalExtension**()
public int	**hashCode**()
public abstract java.lang.String	**toString**()

3.9.14 java.security.cert.X509Certificate

public abstract class java.security.cert.X509Certificate extends java.security.cert.Certificate implements java.security.cert.X509Extension	
protected	**X509Certificate**()
public abstract void	**checkValidity**() throws java.security.cert.CertificateExpiredException, java.security.cert.CertificateNotYetValidException

All Page Within This Box

public abstract void	**checkValidity**(java.util.Date) throws java.security.cert.CertificateExpiredException, java.security.cert.CertificateNotYetValidException
public abstract int	**getBasicConstraints**()
public abstract java.util.Set	**getCriticalExtensionOIDs**()
public abstract byte	**getExtensionValue**(java.lang.String)
public abstract java.security.Principal	**getIssuerDN**()
public abstract boolean	**getIssuerUniqueID**()
public abstract boolean	**getKeyUsage**()
public abstract java.util.Set	**getNonCriticalExtensionOIDs**()
public abstract java.util.Date	**getNotAfter**()
public abstract java.util.Date	**getNotBefore**()
public abstract java.math.BigInteger	**getSerialNumber**()
public abstract java.lang.String	**getSigAlgName**()
public abstract java.lang.String	**getSigAlgOID**()
public abstract byte	**getSigAlgParams**()
public abstract byte	**getSignature**()
public abstract java.security.Principal	**getSubjectDN**()
public abstract boolean	**getSubjectUniqueID**()
public abstract byte	**getTBSCertificate**() throws java.security.cert.CertificateEncodingException
public abstract int	**getVersion**()
public abstract boolean	**hasUnsupportedCriticalExtension**()

3.9.15 java.security.cert.X509Extension

public abstract interface java.security.cert.X509Extension	
public java.util.Set	**getCriticalExtensionOIDs**()
public byte	**getExtensionValue**(java.lang.String)
public java.util.Set	**getNonCriticalExtensionOIDs**()
public boolean	**hasUnsupportedCriticalExtension**()

3.10 Package java.security.interfaces

3.10.1 java.security.interfaces.DSAKey

public abstract interface java.security.interfaces.DSAKey	
public java.security.interfaces.DSAParams	**getParams**()

3.10.2 java.security.interfaces.DSAKeyPairGenerator

public abstract interface java.security.interfaces.DSAKeyPairGenerator	
public void	**initialize**(java.security.interfaces.DSAParams, java.security.SecureRandom) throws java.security.InvalidParameterException
public void	**initialize**(int, boolean, java.security.SecureRandom) throws java.security.InvalidParameterException

3.10.3 java.security.interfaces.DSAParams

public abstract interface java.security.interfaces.DSAParams	
public java.math.BigInteger	**getG**()
public java.math.BigInteger	**getP**()
public java.math.BigInteger	**getQ**()

3.10.4 java.security.interfaces.DSAPrivateKey

public abstract interface java.security.interfaces.DSAPrivateKey extends java.security.interfaces.DSAKey, java.security.PrivateKey	
public static final long	**serialVersionUID**
public java.math.BigInteger	**getX**()

3.10.5 java.security.interfaces.DSAPublicKey

public abstract interface java.security.interfaces.DSAPublicKey extends java.security.interfaces.DSAKey, java.security.PublicKey	
public static final long	**serialVersionUID**
public java.math.BigInteger	**getY**()

3.10.6 java.security.interfaces.RSAKey

public abstract interface java.security.interfaces.RSAKey	
public java.math.BigInteger	**getModulus**()

3.10.7 java.security.interfaces.RSAPrivateCrtKey

public abstract interface java.security.interfaces.RSAPrivateCrtKey extends java.security.interfaces.RSAPrivateKey	
public java.math.BigInteger	**getCrtCoefficient**()
public java.math.BigInteger	**getPrimeExponentP**()
public java.math.BigInteger	**getPrimeExponentQ**()
public java.math.BigInteger	**getPrimeP**()
public java.math.BigInteger	**getPrimeQ**()
public java.math.BigInteger	**getPublicExponent**()

3.10.8 java.security.interfaces.RSAPrivateKey

public abstract interface java.security.interfaces.RSAPrivateKey extends java.security.PrivateKey, java.security.interfaces.RSAKey	
public java.math.BigInteger	**getPrivateExponent**()

All Page Within This Box

OSGi

3.10.9 java.security.interfaces.RSAPublicKey

public abstract interface java.security.interfaces.RSAPublicKey extends java.security.PublicKey, java.security.interfaces.RSAKey	
public java.math.BigInteger	**getPublicExponent**()

3.11 Package java.security.spec

3.11.1 java.security.spec.AlgorithmParameterSpec

public abstract interface java.security.spec.AlgorithmParameterSpec

3.11.2 java.security.spec.DSAParameterSpec

public class java.security.spec.DSAParameterSpec extends java.lang.Object implements java.security.spec.AlgorithmParameterSpec, java.security.interfaces.DSAParams	
public	**DSAParameterSpec**(java.math.BigInteger, java.math.BigInteger, java.math.BigInteger)
public java.math.BigInteger	**getG**()
public java.math.BigInteger	**getP**()
public java.math.BigInteger	**getQ**()

3.11.3 java.security.spec.DSAPrivateKeySpec

public class java.security.spec.DSAPrivateKeySpec extends java.lang.Object implements java.security.spec.KeySpec	
public	**DSAPrivateKeySpec**(java.math.BigInteger, java.math.BigInteger, java.math.BigInteger, java.math.BigInteger)
public java.math.BigInteger	**getG**()
public java.math.BigInteger	**getP**()
public java.math.BigInteger	**getQ**()
public java.math.BigInteger	**getX**()

3.11.4 java.security.spec.DSAPublicKeySpec

public class java.security.spec.DSAPublicKeySpec extends java.lang.Object implements java.security.spec.KeySpec	
public	**DSAPublicKeySpec**(java.math.BigInteger, java.math.BigInteger, java.math.BigInteger, java.math.BigInteger)
public java.math.BigInteger	**getG**()
public java.math.BigInteger	**getP**()
public java.math.BigInteger	**getQ**()
public java.math.BigInteger	**getY**()

3.11.5 java.security.spec.EncodedKeySpec

public abstract class java.security.spec.EncodedKeySpec extends java.lang.Object implements java.security.spec.KeySpec	
public	**EncodedKeySpec**(byte[])
public byte	**getEncoded**()

All Page Within This Box

public abstract java.lang.String	**getFormat**()

3.11.6 java.security.spec.InvalidKeySpecException

public class java.security.spec.InvalidKeySpecException extends java.security.GeneralSecurityException	
public	**InvalidKeySpecException**()
public	**InvalidKeySpecException**(java.lang.String)

3.11.7 java.security.spec.InvalidParameterSpecException

public class java.security.spec.InvalidParameterSpecException extends java.security.GeneralSecurityException	
public	**InvalidParameterSpecException**()
public	**InvalidParameterSpecException**(java.lang.String)

3.11.8 java.security.spec.KeySpec

public abstract interface java.security.spec.KeySpec

3.11.9 java.security.spec.PKCS8EncodedKeySpec

public class java.security.spec.PKCS8EncodedKeySpec extends java.security.spec.EncodedKeySpec	
public	**PKCS8EncodedKeySpec**(byte[])
public byte	**getEncoded**()
public final java.lang.String	**getFormat**()

3.11.10 java.security.spec.RSAKeyGenParameterSpec

public class java.security.spec.RSAKeyGenParameterSpec extends java.lang.Object implements java.security.spec.AlgorithmParameterSpec	
public static final java.math.BigInteger	**F0**
public static final java.math.BigInteger	**F4**
public	**RSAKeyGenParameterSpec**(int, java.math.BigInteger)
public int	**getKeysize**()
public java.math.BigInteger	**getPublicExponent**()

3.11.11 java.security.spec.RSAPrivateCrtKeySpec

public class java.security.spec.RSAPrivateCrtKeySpec extends java.security.spec.RSAPrivateKeySpec	
public	**RSAPrivateCrtKeySpec**(java.math.BigInteger, java.math.BigInteger, java.math.BigInteger, java.math.BigInteger, java.math.BigInteger, java.math.BigInteger, java.math.BigInteger, java.math.BigInteger)
public java.math.BigInteger	**getCrtCoefficient**()
public java.math.BigInteger	**getPrimeExponentP**()
public java.math.BigInteger	**getPrimeExponentQ**()
public java.math.BigInteger	**getPrimeP**()
public java.math.BigInteger	**getPrimeQ**()

public java.math.BigInteger	**getPublicExponent**()

3.11.12 java.security.spec.RSAPrivateKeySpec

public class java.security.spec.RSAPrivateKeySpec extends java.lang.Object implements java.security.spec.KeySpec	
public	**RSAPrivateKeySpec**(java.math.BigInteger, java.math.BigInteger)
public java.math.BigInteger	**getModulus**()
public java.math.BigInteger	**getPrivateExponent**()

3.11.13 java.security.spec.RSAPublicKeySpec

public class java.security.spec.RSAPublicKeySpec extends java.lang.Object implements java.security.spec.KeySpec	
public	**RSAPublicKeySpec**(java.math.BigInteger, java.math.BigInteger)
public java.math.BigInteger	**getModulus**()
public java.math.BigInteger	**getPublicExponent**()

3.11.14 java.security.spec.X509EncodedKeySpec

public class java.security.spec.X509EncodedKeySpec extends java.security.spec.EncodedKeySpec	
public	**X509EncodedKeySpec**(byte[])
public byte	**getEncoded**()
public final java.lang.String	**getFormat**()

3.12 Package java.text

3.12.1 java.text.Annotation

public class java.text.Annotation extends java.lang.Object	
public	**Annotation**(java.lang.Object)
public java.lang.Object	**getValue**()
public java.lang.String	**toString**()

3.12.2 java.text.AttributedCharacterIterator

public abstract interface java.text.AttributedCharacterIterator extends java.text.CharacterIterator	
public java.util.Set	**getAllAttributeKeys**()
public java.lang.Object	**getAttribute**(java.text.AttributedCharacterIterator.Attribute)
public java.util.Map	**getAttributes**()
public int	**getRunLimit**()
public int	**getRunLimit**(java.text.AttributedCharacterIterator.Attribute)
public int	**getRunLimit**(java.util.Set)
public int	**getRunStart**()
public int	**getRunStart**(java.text.AttributedCharacterIterator.Attribute)
public int	**getRunStart**(java.util.Set)

All Page Within This Box

3.12.3 java.text.AttributedCharacterIterator.Attribute

public class java.text.AttributedCharacterIterator.Attribute extends java.lang.Object implements java.io.Serializable	
public static final java.text.AttributedCharacterIterator.Attribute	**INPUT_METHOD_SEGMENT**
public static final java.text.AttributedCharacterIterator.Attribute	**LANGUAGE**
public static final java.text.AttributedCharacterIterator.Attribute	**READING**
protected	**AttributedCharacterIterator.Attribute**(java.lang.String)
public final boolean	**equals**(java.lang.Object)
protected java.lang.String	**getName**()
public final int	**hashCode**()
protected java.lang.Object	**readResolve**() throws java.io.InvalidObjectException
public java.lang.String	**toString**()

3.12.4 java.text.AttributedString

public class java.text.AttributedString extends java.lang.Object	
public	**AttributedString**(java.lang.String)
public	**AttributedString**(java.lang.String, java.util.Map)
public	**AttributedString**(java.text.AttributedCharacterIterator)
public	**AttributedString**(java.text.AttributedCharacterIterator, int, int)
public	**AttributedString**(java.text.AttributedCharacterIterator, int, int, java.text.AttributedCharacterIterator.Attribute[])
public void	**addAttribute**(java.text.AttributedCharacterIterator.Attribute, java.lang.Object)
public void	**addAttribute**(java.text.AttributedCharacterIterator.Attribute, java.lang.Object, int, int)
public void	**addAttributes**(java.util.Map, int, int)
public java.text.AttributedCharacterIterator	**getIterator**()
public java.text.AttributedCharacterIterator	**getIterator**(java.text.AttributedCharacterIterator.Attribute[])
public java.text.AttributedCharacterIterator	**getIterator**(java.text.AttributedCharacterIterator.Attribute[], int, int)

3.12.5 java.text.BreakIterator

public abstract class java.text.BreakIterator extends java.lang.Object implements java.lang.Cloneable	
public static final int	**DONE**
protected	**BreakIterator**()

All Page Within This Box

public java.lang.Object	**clone**()
public abstract int	**current**()
public abstract int	**first**()
public abstract int	**following**(int)
public static java.util.Locale	**getAvailableLocales**()
public static java.text.BreakIterator	**getCharacterInstance**()
public static java.text.BreakIterator	**getCharacterInstance**(java.util.Locale)
public static java.text.BreakIterator	**getLineInstance**()
public static java.text.BreakIterator	**getLineInstance**(java.util.Locale)
public static java.text.BreakIterator	**getSentenceInstance**()
public static java.text.BreakIterator	**getSentenceInstance**(java.util.Locale)
public abstract java.text.CharacterIterator	**getText**()
public static java.text.BreakIterator	**getWordInstance**()
public static java.text.BreakIterator	**getWordInstance**(java.util.Locale)
public boolean	**isBoundary**(int)
public abstract int	**last**()
public abstract int	**next**(int)
public abstract int	**next**()
public int	**preceding**(int)
public abstract int	**previous**()
public void	**setText**(java.lang.String)
public abstract void	**setText**(java.text.CharacterIterator)

3.12.6　java.text.CharacterIterator

public abstract interface java.text.CharacterIterator extends java.lang.Cloneable	
public static final char	**DONE**
public java.lang.Object	**clone**()
public char	**current**()
public char	**first**()
public int	**getBeginIndex**()
public int	**getEndIndex**()
public int	**getIndex**()
public char	**last**()

All Page Within This Box

public char	**next**()
public char	**previous**()
public char	**setIndex**(int)

3.12.7 java.text.ChoiceFormat

public class java.text.ChoiceFormat extends java.text.NumberFormat	
public	**ChoiceFormat**(java.lang.String)
public	**ChoiceFormat**(double[], java.lang.String[])
public void	**applyPattern**(java.lang.String)
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public java.lang.StringBuffer	**format**(long, java.lang.StringBuffer, java.text.FieldPosition)
public java.lang.StringBuffer	**format**(double, java.lang.StringBuffer, java.text.FieldPosition)
public java.lang.Object	**getFormats**()
public double	**getLimits**()
public int	**hashCode**()
public static final double	**nextDouble**(double)
public static double	**nextDouble**(double, boolean)
public java.lang.Number	**parse**(java.lang.String, java.text.ParsePosition)
public static final double	**previousDouble**(double)
public void	**setChoices**(double[], java.lang.String[])
public java.lang.String	**toPattern**()

3.12.8 java.text.CollationElementIterator

public final class java.text.CollationElementIterator extends java.lang.Object	
public static final int	**NULLORDER**
public int	**getMaxExpansion**(int)
public int	**getOffset**()
public int	**next**()
public int	**previous**()
public static final int	**primaryOrder**(int)
public void	**reset**()
public static final short	**secondaryOrder**(int)
public void	**setOffset**(int)
public void	**setText**(java.lang.String)
public void	**setText**(java.text.CharacterIterator)
public static final short	**tertiaryOrder**(int)

3.12.9 java.text.CollationKey

public final class java.text.CollationKey extends java.lang.Object implements java.lang.Comparable

All Page Within This Box

public int	**compareTo**(java.text.CollationKey)
public int	**compareTo**(java.lang.Object)
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getSourceString**()
public int	**hashCode**()
public byte	**toByteArray**()

3.12.10 java.text.Collator

public abstract class java.text.Collator extends java.lang.Object implements java.util.Comparator, java.lang.Cloneable	
public static final int	**CANONICAL_DECOMPOSITION**
public static final int	**FULL_DECOMPOSITION**
public static final int	**IDENTICAL**
public static final int	**NO_DECOMPOSITION**
public static final int	**PRIMARY**
public static final int	**SECONDARY**
public static final int	**TERTIARY**
protected	**Collator**()
public java.lang.Object	**clone**()
public abstract int	**compare**(java.lang.String, java.lang.String)
public int	**compare**(java.lang.Object, java.lang.Object)
public boolean	**equals**(java.lang.String, java.lang.String)
public boolean	**equals**(java.lang.Object)
public static java.util.Locale	**getAvailableLocales**()
public abstract java.text.CollationKey	**getCollationKey**(java.lang.String)
public int	**getDecomposition**()
public static java.text.Collator	**getInstance**()
public static java.text.Collator	**getInstance**(java.util.Locale)
public int	**getStrength**()
public abstract int	**hashCode**()
public void	**setDecomposition**(int)
public void	**setStrength**(int)

3.12.11 java.text.DateFormat

public abstract class java.text.DateFormat extends java.text.Format	
public static final int	**AM_PM_FIELD**
public static final int	**DATE_FIELD**
public static final int	**DAY_OF_WEEK_FIELD**
public static final int	**DAY_OF_WEEK_IN_MONTH_FIELD**

public static final int	**DAY_OF_YEAR_FIELD**
public static final int	**DEFAULT**
public static final int	**ERA_FIELD**
public static final int	**FULL**
public static final int	**HOUR0_FIELD**
public static final int	**HOUR1_FIELD**
public static final int	**HOUR_OF_DAY0_FIELD**
public static final int	**HOUR_OF_DAY1_FIELD**
public static final int	**LONG**
public static final int	**MEDIUM**
public static final int	**MILLISECOND_FIELD**
public static final int	**MINUTE_FIELD**
public static final int	**MONTH_FIELD**
public static final int	**SECOND_FIELD**
public static final int	**SHORT**
public static final int	**TIMEZONE_FIELD**
public static final int	**WEEK_OF_MONTH_FIELD**
public static final int	**WEEK_OF_YEAR_FIELD**
public static final int	**YEAR_FIELD**
protected java.util.Calendar	**calendar**
protected java.text.NumberFormat	**numberFormat**
protected	**DateFormat**()
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public final java.lang.StringBuffer	**format**(java.lang.Object, java.lang.StringBuffer, java.text.FieldPosition)
public abstract java.lang.StringBuffer	**format**(java.util.Date, java.lang.StringBuffer, java.text.FieldPosition)
public final java.lang.String	**format**(java.util.Date)
public static java.util.Locale	**getAvailableLocales**()
public java.util.Calendar	**getCalendar**()
public static final java.text.DateFormat	**getDateInstance**()
public static final java.text.DateFormat	**getDateInstance**(int)
public static final java.text.DateFormat	**getDateInstance**(int, java.util.Locale)
public static final java.text.DateFormat	**getDateTimeInstance**()
public static final java.text.DateFormat	**getDateTimeInstance**(int, int)

public static final java.text.DateFormat	**getDateTimeInstance**(int, int, java.util.Locale)
public static final java.text.DateFormat	**getInstance**()
public java.text.NumberFormat	**getNumberFormat**()
public static final java.text.DateFormat	**getTimeInstance**()
public static final java.text.DateFormat	**getTimeInstance**(int)
public static final java.text.DateFormat	**getTimeInstance**(int, java.util.Locale)
public java.util.TimeZone	**getTimeZone**()
public int	**hashCode**()
public boolean	**isLenient**()
public java.util.Date	**parse**(java.lang.String) throws java.text.ParseException
public abstract java.util.Date	**parse**(java.lang.String, java.text.ParsePosition)
public java.lang.Object	**parseObject**(java.lang.String, java.text.ParsePosition)
public void	**setCalendar**(java.util.Calendar)
public void	**setLenient**(boolean)
public void	**setNumberFormat**(java.text.NumberFormat)
public void	**setTimeZone**(java.util.TimeZone)

3.12.12 java.text.DateFormatSymbols

public class java.text.DateFormatSymbols extends java.lang.Object implements java.io.Serializable, java.lang.Cloneable	
public	**DateFormatSymbols**()
public	**DateFormatSymbols**(java.util.Locale)
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getAmPmStrings**()
public java.lang.String	**getEras**()
public java.lang.String	**getLocalPatternChars**()
public java.lang.String	**getMonths**()
public java.lang.String	**getShortMonths**()
public java.lang.String	**getShortWeekdays**()
public java.lang.String	**getWeekdays**()
public java.lang.String	**getZoneStrings**()
public int	**hashCode**()
public void	**setAmPmStrings**(java.lang.String[])
public void	**setEras**(java.lang.String[])
public void	**setLocalPatternChars**(java.lang.String)

All Page Within This Box

public void	setMonths(java.lang.String[])
public void	setShortMonths(java.lang.String[])
public void	setShortWeekdays(java.lang.String[])
public void	setWeekdays(java.lang.String[])
public void	setZoneStrings(java.lang.String[][])

3.12.13 java.text.DecimalFormat

public class java.text.DecimalFormat extends java.text.NumberFormat	
public	DecimalFormat()
public	DecimalFormat(java.lang.String)
public	DecimalFormat(java.lang.String, java.text.DecimalFormatSymbols)
public void	applyLocalizedPattern(java.lang.String)
public void	applyPattern(java.lang.String)
public java.lang.Object	clone()
public boolean	equals(java.lang.Object)
public java.lang.StringBuffer	format(double, java.lang.StringBuffer, java.text.FieldPosition)
public java.lang.StringBuffer	format(long, java.lang.StringBuffer, java.text.FieldPosition)
public java.text.DecimalFormatSymbols	getDecimalFormatSymbols()
public int	getGroupingSize()
public int	getMultiplier()
public java.lang.String	getNegativePrefix()
public java.lang.String	getNegativeSuffix()
public java.lang.String	getPositivePrefix()
public java.lang.String	getPositiveSuffix()
public int	hashCode()
public boolean	isDecimalSeparatorAlwaysShown()
public java.lang.Number	parse(java.lang.String, java.text.ParsePosition)
public void	setDecimalFormatSymbols(java.text.DecimalFormatSymbols)
public void	setDecimalSeparatorAlwaysShown(boolean)
public void	setGroupingSize(int)
public void	setMaximumFractionDigits(int)
public void	setMaximumIntegerDigits(int)
public void	setMinimumFractionDigits(int)
public void	setMinimumIntegerDigits(int)
public void	setMultiplier(int)
public void	setNegativePrefix(java.lang.String)
public void	setNegativeSuffix(java.lang.String)
public void	setPositivePrefix(java.lang.String)
public void	setPositiveSuffix(java.lang.String)

All Page Within This Box

public java.lang.String	**toLocalizedPattern**()
public java.lang.String	**toPattern**()

3.12.14 java.text.DecimalFormatSymbols

public final class java.text.DecimalFormatSymbols extends java.lang.Object implements java.lang.Cloneable, java.io.Serializable	
public	**DecimalFormatSymbols**()
public	**DecimalFormatSymbols**(java.util.Locale)
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getCurrencySymbol**()
public char	**getDecimalSeparator**()
public char	**getDigit**()
public char	**getGroupingSeparator**()
public java.lang.String	**getInfinity**()
public java.lang.String	**getInternationalCurrencySymbol**()
public char	**getMinusSign**()
public char	**getMonetaryDecimalSeparator**()
public java.lang.String	**getNaN**()
public char	**getPatternSeparator**()
public char	**getPerMill**()
public char	**getPercent**()
public char	**getZeroDigit**()
public int	**hashCode**()
public void	**setCurrencySymbol**(java.lang.String)
public void	**setDecimalSeparator**(char)
public void	**setDigit**(char)
public void	**setGroupingSeparator**(char)
public void	**setInfinity**(java.lang.String)
public void	**setInternationalCurrencySymbol**(java.lang.String)
public void	**setMinusSign**(char)
public void	**setMonetaryDecimalSeparator**(char)
public void	**setNaN**(java.lang.String)
public void	**setPatternSeparator**(char)
public void	**setPerMill**(char)
public void	**setPercent**(char)
public void	**setZeroDigit**(char)

3.12.15 java.text.FieldPosition

public class java.text.FieldPosition extends java.lang.Object

All Page Within This Box

public	**FieldPosition**(int)
public boolean	**equals**(java.lang.Object)
public int	**getBeginIndex**()
public int	**getEndIndex**()
public int	**getField**()
public int	**hashCode**()
public void	**setBeginIndex**(int)
public void	**setEndIndex**(int)
public java.lang.String	**toString**()

3.12.16 java.text.Format

public abstract class java.text.Format extends java.lang.Object implements java.io.Serializable, java.lang.Cloneable	
public	**Format**()
public java.lang.Object	**clone**()
public final java.lang.String	**format**(java.lang.Object)
public abstract java.lang.StringBuffer	**format**(java.lang.Object, java.lang.StringBuffer, java.text.FieldPosition)
public abstract java.lang.Object	**parseObject**(java.lang.String, java.text.ParsePosition)
public java.lang.Object	**parseObject**(java.lang.String) throws java.text.ParseException

3.12.17 java.text.MessageFormat

public class java.text.MessageFormat extends java.text.Format	
public	**MessageFormat**(java.lang.String)
public void	**applyPattern**(java.lang.String)
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public final java.lang.StringBuffer	**format**(java.lang.Object[], java.lang.StringBuffer, java.text.FieldPosition)
public static java.lang.String	**format**(java.lang.String, java.lang.Object[])
public final java.lang.StringBuffer	**format**(java.lang.Object, java.lang.StringBuffer, java.text.FieldPosition)
public java.text.Format	**getFormats**()
public java.util.Locale	**getLocale**()
public int	**hashCode**()
public java.lang.Object	**parse**(java.lang.String, java.text.ParsePosition)
public java.lang.Object	**parse**(java.lang.String) throws java.text.ParseException
public java.lang.Object	**parseObject**(java.lang.String, java.text.ParsePosition)
public void	**setFormat**(int, java.text.Format)
public void	**setFormats**(java.text.Format[])
public void	**setLocale**(java.util.Locale)
public java.lang.String	**toPattern**()

All Page Within This Box

3.12.18 java.text.NumberFormat

public abstract class java.text.NumberFormat extends java.text.Format	
public static final int	**FRACTION_FIELD**
public static final int	**INTEGER_FIELD**
public	**NumberFormat**()
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public final java.lang.StringBuffer	**format**(java.lang.Object, java.lang.StringBuffer, java.text.FieldPosition)
public final java.lang.String	**format**(double)
public final java.lang.String	**format**(long)
public abstract java.lang.StringBuffer	**format**(double, java.lang.StringBuffer, java.text.FieldPosition)
public abstract java.lang.StringBuffer	**format**(long, java.lang.StringBuffer, java.text.FieldPosition)
public static java.util.Locale	**getAvailableLocales**()
public static final java.text.NumberFormat	**getCurrencyInstance**()
public static java.text.NumberFormat	**getCurrencyInstance**(java.util.Locale)
public static final java.text.NumberFormat	**getInstance**()
public static java.text.NumberFormat	**getInstance**(java.util.Locale)
public int	**getMaximumFractionDigits**()
public int	**getMaximumIntegerDigits**()
public int	**getMinimumFractionDigits**()
public int	**getMinimumIntegerDigits**()
public static final java.text.NumberFormat	**getNumberInstance**()
public static java.text.NumberFormat	**getNumberInstance**(java.util.Locale)
public static final java.text.NumberFormat	**getPercentInstance**()
public static java.text.NumberFormat	**getPercentInstance**(java.util.Locale)
public int	**hashCode**()
public boolean	**isGroupingUsed**()
public boolean	**isParseIntegerOnly**()
public abstract java.lang.Number	**parse**(java.lang.String, java.text.ParsePosition)
public java.lang.Number	**parse**(java.lang.String) throws java.text.ParseException
public final java.lang.Object	**parseObject**(java.lang.String, java.text.ParsePosition)
public void	**setGroupingUsed**(boolean)

All Page Within This Box

public void	setMaximumFractionDigits(int)
public void	setMaximumIntegerDigits(int)
public void	setMinimumFractionDigits(int)
public void	setMinimumIntegerDigits(int)
public void	setParseIntegerOnly(boolean)

3.12.19 java.text.ParseException

public class java.text.ParseException extends java.lang.Exception	
public	ParseException(java.lang.String, int)
public int	getErrorOffset()

3.12.20 java.text.ParsePosition

public class java.text.ParsePosition extends java.lang.Object	
public	ParsePosition(int)
public boolean	equals(java.lang.Object)
public int	getErrorIndex()
public int	getIndex()
public int	hashCode()
public void	setErrorIndex(int)
public void	setIndex(int)
public java.lang.String	toString()

3.12.21 java.text.RuleBasedCollator

public class java.text.RuleBasedCollator extends java.text.Collator	
public	RuleBasedCollator(java.lang.String) throws java.text.ParseException
public java.lang.Object	clone()
public int	compare(java.lang.String, java.lang.String)
public boolean	equals(java.lang.Object)
public java.text.CollationElementIterator	getCollationElementIterator(java.lang.String)
public java.text.CollationElementIterator	getCollationElementIterator(java.text.CharacterIterator)
public java.text.CollationKey	getCollationKey(java.lang.String)
public java.lang.String	getRules()
public int	hashCode()

3.12.22 java.text.SimpleDateFormat

public class java.text.SimpleDateFormat extends java.text.DateFormat	
public	SimpleDateFormat()
public	SimpleDateFormat(java.lang.String)
public	SimpleDateFormat(java.lang.String, java.util.Locale)

public	**SimpleDateFormat**(java.lang.String, java.text.DateFormatSymbols)
public void	**applyLocalizedPattern**(java.lang.String)
public void	**applyPattern**(java.lang.String)
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public java.lang.StringBuffer	**format**(java.util.Date, java.lang.StringBuffer, java.text.FieldPosition)
public java.util.Date	**get2DigitYearStart**()
public java.text.DateFormatSymbols	**getDateFormatSymbols**()
public int	**hashCode**()
public java.util.Date	**parse**(java.lang.String, java.text.ParsePosition)
public void	**set2DigitYearStart**(java.util.Date)
public void	**setDateFormatSymbols**(java.text.DateFormatSymbols)
public java.lang.String	**toLocalizedPattern**()
public java.lang.String	**toPattern**()

3.12.23 java.text.StringCharacterIterator

public final class java.text.StringCharacterIterator extends java.lang.Object implements java.text.CharacterIterator	
public	**StringCharacterIterator**(java.lang.String)
public	**StringCharacterIterator**(java.lang.String, int)
public	**StringCharacterIterator**(java.lang.String, int, int, int)
public java.lang.Object	**clone**()
public char	**current**()
public boolean	**equals**(java.lang.Object)
public char	**first**()
public int	**getBeginIndex**()
public int	**getEndIndex**()
public int	**getIndex**()
public int	**hashCode**()
public char	**last**()
public char	**next**()
public char	**previous**()
public char	**setIndex**(int)
public void	**setText**(java.lang.String)

3.13 Package java.util

3.13.1 java.util.AbstractCollection

public abstract class java.util.AbstractCollection extends java.lang.Object implements java.util.Collection	
protected	**AbstractCollection**()

public boolean	**add**(java.lang.Object)
public boolean	**addAll**(java.util.Collection)
public void	**clear**()
public boolean	**contains**(java.lang.Object)
public boolean	**containsAll**(java.util.Collection)
public boolean	**isEmpty**()
public abstract java.util.Iterator	**iterator**()
public boolean	**remove**(java.lang.Object)
public boolean	**removeAll**(java.util.Collection)
public boolean	**retainAll**(java.util.Collection)
public abstract int	**size**()
public java.lang.Object	**toArray**()
public java.lang.Object	**toArray**(java.lang.Object[])
public java.lang.String	**toString**()

3.13.2 java.util.AbstractList

public abstract class java.util.AbstractList extends java.util.AbstractCollection implements java.util.List	
protected int	**modCount**
protected	**AbstractList**()
public boolean	**add**(java.lang.Object)
public void	**add**(int, java.lang.Object)
public boolean	**addAll**(int, java.util.Collection)
public void	**clear**()
public boolean	**equals**(java.lang.Object)
public abstract java.lang.Object	**get**(int)
public int	**hashCode**()
public int	**indexOf**(java.lang.Object)
public java.util.Iterator	**iterator**()
public int	**lastIndexOf**(java.lang.Object)
public java.util.ListIterator	**listIterator**()
public java.util.ListIterator	**listIterator**(int)
public java.lang.Object	**remove**(int)
protected void	**removeRange**(int, int)
public java.lang.Object	**set**(int, java.lang.Object)
public java.util.List	**subList**(int, int)

3.13.3 java.util.AbstractMap

public abstract class java.util.AbstractMap extends java.lang.Object implements java.util.Map	
protected	**AbstractMap**()
public void	**clear**()

All Page Within This Box

public boolean	**containsKey**(java.lang.Object)
public boolean	**containsValue**(java.lang.Object)
public abstract java.util.Set	**entrySet**()
public boolean	**equals**(java.lang.Object)
public java.lang.Object	**get**(java.lang.Object)
public int	**hashCode**()
public boolean	**isEmpty**()
public java.util.Set	**keySet**()
public java.lang.Object	**put**(java.lang.Object, java.lang.Object)
public void	**putAll**(java.util.Map)
public java.lang.Object	**remove**(java.lang.Object)
public int	**size**()
public java.lang.String	**toString**()
public java.util.Collection	**values**()

3.13.4 java.util.AbstractSequentialList

public abstract class java.util.AbstractSequentialList extends java.util.AbstractList	
protected	**AbstractSequentialList**()
public void	**add**(int, java.lang.Object)
public boolean	**addAll**(int, java.util.Collection)
public java.lang.Object	**get**(int)
public java.util.Iterator	**iterator**()
public abstract java.util.ListIterator	**listIterator**(int)
public java.lang.Object	**remove**(int)
public java.lang.Object	**set**(int, java.lang.Object)

3.13.5 java.util.AbstractSet

public abstract class java.util.AbstractSet extends java.util.AbstractCollection implements java.util.Set	
protected	**AbstractSet**()
public boolean	**equals**(java.lang.Object)
public int	**hashCode**()
public boolean	**removeAll**(java.util.Collection)

3.13.6 java.util.ArrayList

public class java.util.ArrayList extends java.util.AbstractList implements java.util.List, java.lang.Cloneable, java.io.Serializable	
public	**ArrayList**(int)
public	**ArrayList**()
public	**ArrayList**(java.util.Collection)
public boolean	**add**(java.lang.Object)

public void	**add**(int, java.lang.Object)
public boolean	**addAll**(java.util.Collection)
public boolean	**addAll**(int, java.util.Collection)
public void	**clear**()
public java.lang.Object	**clone**()
public boolean	**contains**(java.lang.Object)
public void	**ensureCapacity**(int)
public java.lang.Object	**get**(int)
public int	**indexOf**(java.lang.Object)
public boolean	**isEmpty**()
public int	**lastIndexOf**(java.lang.Object)
public java.lang.Object	**remove**(int)
protected void	**removeRange**(int, int)
public java.lang.Object	**set**(int, java.lang.Object)
public int	**size**()
public java.lang.Object	**toArray**()
public java.lang.Object	**toArray**(java.lang.Object[])
public void	**trimToSize**()

3.13.7 java.util.Arrays

public class java.util.Arrays extends java.lang.Object	
public static java.util.List	**asList**(java.lang.Object[])
public static int	**binarySearch**(long[], long)
public static int	**binarySearch**(int[], int)
public static int	**binarySearch**(short[], short)
public static int	**binarySearch**(char[], char)
public static int	**binarySearch**(byte[], byte)
public static int	**binarySearch**(double[], double)
public static int	**binarySearch**(float[], float)
public static int	**binarySearch**(java.lang.Object[], java.lang.Object)
public static int	**binarySearch**(java.lang.Object[], java.lang.Object, java.util.Comparator)
public static boolean	**equals**(long[], long[])
public static boolean	**equals**(int[], int[])
public static boolean	**equals**(short[], short[])
public static boolean	**equals**(char[], char[])
public static boolean	**equals**(byte[], byte[])
public static boolean	**equals**(boolean[], boolean[])
public static boolean	**equals**(double[], double[])
public static boolean	**equals**(float[], float[])

All Page Within This Box

public static boolean	**equals**(java.lang.Object[], java.lang.Object[])
public static void	**fill**(long[], long)
public static void	**fill**(long[], int, int, long)
public static void	**fill**(int[], int)
public static void	**fill**(int[], int, int, int)
public static void	**fill**(short[], short)
public static void	**fill**(short[], int, int, short)
public static void	**fill**(char[], char)
public static void	**fill**(char[], int, int, char)
public static void	**fill**(byte[], byte)
public static void	**fill**(byte[], int, int, byte)
public static void	**fill**(boolean[], boolean)
public static void	**fill**(boolean[], int, int, boolean)
public static void	**fill**(double[], double)
public static void	**fill**(double[], int, int, double)
public static void	**fill**(float[], float)
public static void	**fill**(float[], int, int, float)
public static void	**fill**(java.lang.Object[], java.lang.Object)
public static void	**fill**(java.lang.Object[], int, int, java.lang.Object)
public static void	**sort**(long[])
public static void	**sort**(long[], int, int)
public static void	**sort**(int[])
public static void	**sort**(int[], int, int)
public static void	**sort**(short[])
public static void	**sort**(short[], int, int)
public static void	**sort**(char[])
public static void	**sort**(char[], int, int)
public static void	**sort**(byte[])
public static void	**sort**(byte[], int, int)
public static void	**sort**(double[])
public static void	**sort**(double[], int, int)
public static void	**sort**(float[])
public static void	**sort**(float[], int, int)
public static void	**sort**(java.lang.Object[])
public static void	**sort**(java.lang.Object[], int, int)
public static void	**sort**(java.lang.Object[], java.util.Comparator)
public static void	**sort**(java.lang.Object[], int, int, java.util.Comparator)

All Page Within This Box

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3.13.8 java.util.BitSet

public class java.util.BitSet extends java.lang.Object implements java.lang.Cloneable, java.io.Serializable	
public	**BitSet**()
public	**BitSet**(int)
public void	**and**(java.util.BitSet)
public void	**andNot**(java.util.BitSet)
public void	**clear**(int)
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public boolean	**get**(int)
public int	**hashCode**()
public int	**length**()
public void	**or**(java.util.BitSet)
public void	**set**(int)
public int	**size**()
public java.lang.String	**toString**()
public void	**xor**(java.util.BitSet)

3.13.9 java.util.Calendar

public abstract class java.util.Calendar extends java.lang.Object implements java.io.Serializable, java.lang.Cloneable	
public static final int	**AM**
public static final int	**AM_PM**
public static final int	**APRIL**
public static final int	**AUGUST**
public static final int	**DATE**
public static final int	**DAY_OF_MONTH**
public static final int	**DAY_OF_WEEK**
public static final int	**DAY_OF_WEEK_IN_MONTH**
public static final int	**DAY_OF_YEAR**
public static final int	**DECEMBER**
public static final int	**DST_OFFSET**
public static final int	**ERA**
public static final int	**FEBRUARY**
public static final int	**FIELD_COUNT**
public static final int	**FRIDAY**
public static final int	**HOUR**
public static final int	**HOUR_OF_DAY**
public static final int	**JANUARY**
public static final int	**JULY**

All Page Within This Box

public static final int	**JUNE**
public static final int	**MARCH**
public static final int	**MAY**
public static final int	**MILLISECOND**
public static final int	**MINUTE**
public static final int	**MONDAY**
public static final int	**MONTH**
public static final int	**NOVEMBER**
public static final int	**OCTOBER**
public static final int	**PM**
public static final int	**SATURDAY**
public static final int	**SECOND**
public static final int	**SEPTEMBER**
public static final int	**SUNDAY**
public static final int	**THURSDAY**
public static final int	**TUESDAY**
public static final int	**UNDECIMBER**
public static final int	**WEDNESDAY**
public static final int	**WEEK_OF_MONTH**
public static final int	**WEEK_OF_YEAR**
public static final int	**YEAR**
public static final int	**ZONE_OFFSET**
protected boolean	**areFieldsSet**
protected int	**fields**
protected boolean	**isSet**
protected boolean	**isTimeSet**
protected long	**time**
protected	**Calendar**()
protected	**Calendar**(java.util.TimeZone, java.util.Locale)
public abstract void	**add**(int, int)
public boolean	**after**(java.lang.Object)
public boolean	**before**(java.lang.Object)
public final void	**clear**()
public final void	**clear**(int)
public java.lang.Object	**clone**()
protected void	**complete**()
protected abstract void	**computeFields**()
protected abstract void	**computeTime**()
public boolean	**equals**(java.lang.Object)

All Page Within This Box

public final int	**get**(int)
public int	**getActualMaximum**(int)
public int	**getActualMinimum**(int)
public static java.util.Locale	**getAvailableLocales**()
public int	**getFirstDayOfWeek**()
public abstract int	**getGreatestMinimum**(int)
public static java.util.Calendar	**getInstance**()
public static java.util.Calendar	**getInstance**(java.util.TimeZone)
public static java.util.Calendar	**getInstance**(java.util.Locale)
public static java.util.Calendar	**getInstance**(java.util.TimeZone, java.util.Locale)
public abstract int	**getLeastMaximum**(int)
public abstract int	**getMaximum**(int)
public int	**getMinimalDaysInFirstWeek**()
public abstract int	**getMinimum**(int)
public final java.util.Date	**getTime**()
protected long	**getTimeInMillis**()
public java.util.TimeZone	**getTimeZone**()
public int	**hashCode**()
protected final int	**internalGet**(int)
public boolean	**isLenient**()
public final boolean	**isSet**(int)
public abstract void	**roll**(int, boolean)
public void	**roll**(int, int)
public final void	**set**(int, int)
public final void	**set**(int, int, int)
public final void	**set**(int, int, int, int, int)
public final void	**set**(int, int, int, int, int, int)
public void	**setFirstDayOfWeek**(int)
public void	**setLenient**(boolean)
public void	**setMinimalDaysInFirstWeek**(int)
public final void	**setTime**(java.util.Date)
protected void	**setTimeInMillis**(long)
public void	**setTimeZone**(java.util.TimeZone)
public java.lang.String	**toString**()

3.13.10 java.util.Collection

public abstract interface java.util.Collection	
public boolean	**add**(java.lang.Object)
public boolean	**addAll**(java.util.Collection)

public void	**clear**()
public boolean	**contains**(java.lang.Object)
public boolean	**containsAll**(java.util.Collection)
public boolean	**equals**(java.lang.Object)
public int	**hashCode**()
public boolean	**isEmpty**()
public java.util.Iterator	**iterator**()
public boolean	**remove**(java.lang.Object)
public boolean	**removeAll**(java.util.Collection)
public boolean	**retainAll**(java.util.Collection)
public int	**size**()
public java.lang.Object	**toArray**()
public java.lang.Object	**toArray**(java.lang.Object[])

3.13.11 java.util.Collections

public class java.util.Collections extends java.lang.Object	
public static final java.util.List	**EMPTY_LIST**
public static final java.util.Map	**EMPTY_MAP**
public static final java.util.Set	**EMPTY_SET**
public static int	**binarySearch**(java.util.List, java.lang.Object)
public static int	**binarySearch**(java.util.List, java.lang.Object, java.util.Comparator)
public static void	**copy**(java.util.List, java.util.List)
public static java.util.Enumeration	**enumeration**(java.util.Collection)
public static void	**fill**(java.util.List, java.lang.Object)
public static java.lang.Object	**max**(java.util.Collection)
public static java.lang.Object	**max**(java.util.Collection, java.util.Comparator)
public static java.lang.Object	**min**(java.util.Collection)
public static java.lang.Object	**min**(java.util.Collection, java.util.Comparator)
public static java.util.List	**nCopies**(int, java.lang.Object)
public static void	**reverse**(java.util.List)
public static java.util.Comparator	**reverseOrder**()
public static void	**shuffle**(java.util.List)
public static void	**shuffle**(java.util.List, java.util.Random)
public static java.util.Set	**singleton**(java.lang.Object)
public static java.util.List	**singletonList**(java.lang.Object)
public static java.util.Map	**singletonMap**(java.lang.Object, java.lang.Object)
public static void	**sort**(java.util.List)
public static void	**sort**(java.util.List, java.util.Comparator)
public static java.util.Collection	**synchronizedCollection**(java.util.Collection)

All Page Within This Box

public static java.util.List	**synchronizedList**(java.util.List)
public static java.util.Map	**synchronizedMap**(java.util.Map)
public static java.util.Set	**synchronizedSet**(java.util.Set)
public static java.util.SortedMap	**synchronizedSortedMap**(java.util.SortedMap)
public static java.util.SortedSet	**synchronizedSortedSet**(java.util.SortedSet)
public static java.util.Collection	**unmodifiableCollection**(java.util.Collection)
public static java.util.List	**unmodifiableList**(java.util.List)
public static java.util.Map	**unmodifiableMap**(java.util.Map)
public static java.util.Set	**unmodifiableSet**(java.util.Set)
public static java.util.SortedMap	**unmodifiableSortedMap**(java.util.SortedMap)
public static java.util.SortedSet	**unmodifiableSortedSet**(java.util.SortedSet)

3.13.12 java.util.Comparator

public abstract interface java.util.Comparator	
public int	**compare**(java.lang.Object, java.lang.Object)
public boolean	**equals**(java.lang.Object)

3.13.13 java.util.ConcurrentModificationException

public class java.util.ConcurrentModificationException extends java.lang.RuntimeException	
public	**ConcurrentModificationException**()
public	**ConcurrentModificationException**(java.lang.String)

3.13.14 java.util.Date

public class java.util.Date extends java.lang.Object implements java.io.Serializable, java.lang.Cloneable, java.lang.Comparable	
public	**Date**()
public	**Date**(long)
public boolean	**after**(java.util.Date)
public boolean	**before**(java.util.Date)
public java.lang.Object	**clone**()
public int	**compareTo**(java.util.Date)
public int	**compareTo**(java.lang.Object)
public boolean	**equals**(java.lang.Object)
public long	**getTime**()
public int	**hashCode**()
public void	**setTime**(long)
public java.lang.String	**toString**()

3.13.15 java.util.Dictionary

public abstract class java.util.Dictionary extends java.lang.Object	
public	**Dictionary**()

All Page Within This Box

public abstract java.util.Enumeration	**elements**()
public abstract java.lang.Object	**get**(java.lang.Object)
public abstract boolean	**isEmpty**()
public abstract java.util.Enumeration	**keys**()
public abstract java.lang.Object	**put**(java.lang.Object, java.lang.Object)
public abstract java.lang.Object	**remove**(java.lang.Object)
public abstract int	**size**()

3.13.16 java.util.EmptyStackException

public class java.util.EmptyStackException extends java.lang.RuntimeException	
public	**EmptyStackException**()

3.13.17 java.util.Enumeration

public abstract interface java.util.Enumeration	
public boolean	**hasMoreElements**()
public java.lang.Object	**nextElement**()

3.13.18 java.util.EventListener

public abstract interface java.util.EventListener

3.13.19 java.util.EventObject

public class java.util.EventObject extends java.lang.Object implements java.io.Serializable	
protected java.lang.Object	**source**
public	**EventObject**(java.lang.Object)
public java.lang.Object	**getSource**()
public java.lang.String	**toString**()

3.13.20 java.util.GregorianCalendar

public class java.util.GregorianCalendar extends java.util.Calendar	
public static final int	**AD**
public static final int	**BC**
public	**GregorianCalendar**()
public	**GregorianCalendar**(java.util.TimeZone)
public	**GregorianCalendar**(java.util.Locale)
public	**GregorianCalendar**(java.util.TimeZone, java.util.Locale)
public	**GregorianCalendar**(int, int, int)
public	**GregorianCalendar**(int, int, int, int, int)
public	**GregorianCalendar**(int, int, int, int, int, int)
public void	**add**(int, int)
protected void	**computeFields**()

All Page Within This Box

protected void	computeTime()
public boolean	equals(java.lang.Object)
public int	getActualMaximum(int)
public int	getActualMinimum(int)
public int	getGreatestMinimum(int)
public final java.util.Date	getGregorianChange()
public int	getLeastMaximum(int)
public int	getMaximum(int)
public int	getMinimum(int)
public int	hashCode()
public boolean	isLeapYear(int)
public void	roll(int, boolean)
public void	roll(int, int)
public void	setGregorianChange(java.util.Date)

3.13.21 java.util.HashMap

public class java.util.HashMap extends java.util.AbstractMap implements java.util.Map, java.lang.Cloneable, java.io.Serializable	
public	HashMap(int, float)
public	HashMap(int)
public	HashMap()
public	HashMap(java.util.Map)
public void	clear()
public java.lang.Object	clone()
public boolean	containsKey(java.lang.Object)
public boolean	containsValue(java.lang.Object)
public java.util.Set	entrySet()
public java.lang.Object	get(java.lang.Object)
public boolean	isEmpty()
public java.util.Set	keySet()
public java.lang.Object	put(java.lang.Object, java.lang.Object)
public void	putAll(java.util.Map)
public java.lang.Object	remove(java.lang.Object)
public int	size()
public java.util.Collection	values()

3.13.22 java.util.HashSet

public class java.util.HashSet extends java.util.AbstractSet implements java.util.Set, java.lang.Cloneable, java.io.Serializable	
public	HashSet()

public	**HashSet**(java.util.Collection)
public	**HashSet**(int, float)
public	**HashSet**(int)
public boolean	**add**(java.lang.Object)
public void	**clear**()
public java.lang.Object	**clone**()
public boolean	**contains**(java.lang.Object)
public boolean	**isEmpty**()
public java.util.Iterator	**iterator**()
public boolean	**remove**(java.lang.Object)
public int	**size**()

3.13.23 java.util.Hashtable

public class java.util.Hashtable extends java.util.Dictionary implements java.util.Map, java.lang.Cloneable, java.io.Serializable

public	**Hashtable**(int, float)
public	**Hashtable**(int)
public	**Hashtable**()
public	**Hashtable**(java.util.Map)
public void	**clear**()
public java.lang.Object	**clone**()
public boolean	**contains**(java.lang.Object)
public boolean	**containsKey**(java.lang.Object)
public boolean	**containsValue**(java.lang.Object)
public java.util.Enumeration	**elements**()
public java.util.Set	**entrySet**()
public boolean	**equals**(java.lang.Object)
public java.lang.Object	**get**(java.lang.Object)
public int	**hashCode**()
public boolean	**isEmpty**()
public java.util.Set	**keySet**()
public java.util.Enumeration	**keys**()
public java.lang.Object	**put**(java.lang.Object, java.lang.Object)
public void	**putAll**(java.util.Map)
protected void	**rehash**()
public java.lang.Object	**remove**(java.lang.Object)
public int	**size**()
public java.lang.String	**toString**()
public java.util.Collection	**values**()

All Page Within This Box

3.13.24 java.util.Iterator

public abstract interface java.util.Iterator	
public boolean	**hasNext**()
public java.lang.Object	**next**()
public void	**remove**()

3.13.25 java.util.LinkedList

public class java.util.LinkedList extends java.util.AbstractSequentialList implements java.util.List, java.lang.Cloneable, java.io.Serializable	
public	**LinkedList**()
public	**LinkedList**(java.util.Collection)
public boolean	**add**(java.lang.Object)
public void	**add**(int, java.lang.Object)
public boolean	**addAll**(java.util.Collection)
public boolean	**addAll**(int, java.util.Collection)
public void	**addFirst**(java.lang.Object)
public void	**addLast**(java.lang.Object)
public void	**clear**()
public java.lang.Object	**clone**()
public boolean	**contains**(java.lang.Object)
public java.lang.Object	**get**(int)
public java.lang.Object	**getFirst**()
public java.lang.Object	**getLast**()
public int	**indexOf**(java.lang.Object)
public int	**lastIndexOf**(java.lang.Object)
public java.util.ListIterator	**listIterator**(int)
public boolean	**remove**(java.lang.Object)
public java.lang.Object	**remove**(int)
public java.lang.Object	**removeFirst**()
public java.lang.Object	**removeLast**()
public java.lang.Object	**set**(int, java.lang.Object)
public int	**size**()
public java.lang.Object	**toArray**()
public java.lang.Object	**toArray**(java.lang.Object[])

3.13.26 java.util.List

public abstract interface java.util.List extends java.util.Collection	
public boolean	**add**(java.lang.Object)
public void	**add**(int, java.lang.Object)
public boolean	**addAll**(java.util.Collection)

public boolean	**addAll**(int, java.util.Collection)
public void	**clear**()
public boolean	**contains**(java.lang.Object)
public boolean	**containsAll**(java.util.Collection)
public boolean	**equals**(java.lang.Object)
public java.lang.Object	**get**(int)
public int	**hashCode**()
public int	**indexOf**(java.lang.Object)
public boolean	**isEmpty**()
public java.util.Iterator	**iterator**()
public int	**lastIndexOf**(java.lang.Object)
public java.util.ListIterator	**listIterator**()
public java.util.ListIterator	**listIterator**(int)
public boolean	**remove**(java.lang.Object)
public java.lang.Object	**remove**(int)
public boolean	**removeAll**(java.util.Collection)
public boolean	**retainAll**(java.util.Collection)
public java.lang.Object	**set**(int, java.lang.Object)
public int	**size**()
public java.util.List	**subList**(int, int)
public java.lang.Object	**toArray**()
public java.lang.Object	**toArray**(java.lang.Object[])

3.13.27 java.util.ListIterator

public abstract interface java.util.ListIterator extends java.util.Iterator	
public void	**add**(java.lang.Object)
public boolean	**hasNext**()
public boolean	**hasPrevious**()
public java.lang.Object	**next**()
public int	**nextIndex**()
public java.lang.Object	**previous**()
public int	**previousIndex**()
public void	**remove**()
public void	**set**(java.lang.Object)

3.13.28 java.util.ListResourceBundle

public abstract class java.util.ListResourceBundle extends java.util.ResourceBundle	
public	**ListResourceBundle**()
protected abstract java.lang.Object	**getContents**()

All Page Within This Box

public java.util.Enumeration	**getKeys**()
public final java.lang.Object	**handleGetObject**(java.lang.String)

3.13.29 java.util.Locale

public final class java.util.Locale extends java.lang.Object implements java.lang.Cloneable, java.io.Serializable	
public static final java.util.Locale	**CANADA**
public static final java.util.Locale	**CANADA_FRENCH**
public static final java.util.Locale	**CHINA**
public static final java.util.Locale	**CHINESE**
public static final java.util.Locale	**ENGLISH**
public static final java.util.Locale	**FRANCE**
public static final java.util.Locale	**FRENCH**
public static final java.util.Locale	**GERMAN**
public static final java.util.Locale	**GERMANY**
public static final java.util.Locale	**ITALIAN**
public static final java.util.Locale	**ITALY**
public static final java.util.Locale	**JAPAN**
public static final java.util.Locale	**JAPANESE**
public static final java.util.Locale	**KOREA**
public static final java.util.Locale	**KOREAN**
public static final java.util.Locale	**PRC**
public static final java.util.Locale	**SIMPLIFIED_CHINESE**
public static final java.util.Locale	**TAIWAN**
public static final java.util.Locale	**TRADITIONAL_CHINESE**
public static final java.util.Locale	**UK**
public static final java.util.Locale	**US**
public	**Locale**(java.lang.String, java.lang.String, java.lang.String)
public	**Locale**(java.lang.String, java.lang.String)
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public static java.util.Locale	**getAvailableLocales**()
public java.lang.String	**getCountry**()
public static java.util.Locale	**getDefault**()
public final java.lang.String	**getDisplayCountry**()
public java.lang.String	**getDisplayCountry**(java.util.Locale)
public final java.lang.String	**getDisplayLanguage**()
public java.lang.String	**getDisplayLanguage**(java.util.Locale)
public final java.lang.String	**getDisplayName**()
public java.lang.String	**getDisplayName**(java.util.Locale)

All Page Within This Box

public final java.lang.String	**getDisplayVariant**()
public java.lang.String	**getDisplayVariant**(java.util.Locale)
public java.lang.String	**getISO3Country**() throws java.util.MissingResourceException
public java.lang.String	**getISO3Language**() throws java.util.MissingResourceException
public static java.lang.String	**getISOCountries**()
public static java.lang.String	**getISOLanguages**()
public java.lang.String	**getLanguage**()
public java.lang.String	**getVariant**()
public int	**hashCode**()
public static void	**setDefault**(java.util.Locale)
public final java.lang.String	**toString**()

3.13.30 java.util.Map

public abstract interface java.util.Map	
public void	**clear**()
public boolean	**containsKey**(java.lang.Object)
public boolean	**containsValue**(java.lang.Object)
public java.util.Set	**entrySet**()
public boolean	**equals**(java.lang.Object)
public java.lang.Object	**get**(java.lang.Object)
public int	**hashCode**()
public boolean	**isEmpty**()
public java.util.Set	**keySet**()
public java.lang.Object	**put**(java.lang.Object, java.lang.Object)
public void	**putAll**(java.util.Map)
public java.lang.Object	**remove**(java.lang.Object)
public int	**size**()
public java.util.Collection	**values**()

3.13.31 java.util.Map.Entry

public abstract interface java.util.Map.Entry	
public boolean	**equals**(java.lang.Object)
public java.lang.Object	**getKey**()
public java.lang.Object	**getValue**()
public int	**hashCode**()
public java.lang.Object	**setValue**(java.lang.Object)

3.13.32 java.util.MissingResourceException

public class java.util.MissingResourceException extends java.lang.RuntimeException	
public	**MissingResourceException**(java.lang.String, java.lang.String,

All Page Within This Box

	java.lang.String)
public java.lang.String	**getClassName**()
public java.lang.String	**getKey**()

3.13.33 java.util.NoSuchElementException

public class java.util.NoSuchElementException extends java.lang.RuntimeException	
public	**NoSuchElementException**()
public	**NoSuchElementException**(java.lang.String)

3.13.34 java.util.Observable

public class java.util.Observable extends java.lang.Object	
public	**Observable**()
public void	**addObserver**(java.util.Observer)
protected void	**clearChanged**()
public int	**countObservers**()
public void	**deleteObserver**(java.util.Observer)
public void	**deleteObse rvers**()
public boolean	**hasChanged**()
public void	**notifyObservers**()
public void	**notifyObservers**(java.lang.Object)
protected void	**setChanged**()

3.13.35 java.util.Observer

public abstract interface java.util.Observer	
public void	**update**(java.util.Observable, java.lang.Object)

3.13.36 java.util.Properties

public class java.util.Properties extends java.util.Hashtable	
protected java.util.Properties	**defaults**
public	**Properties**()
public	**Properties**(java.util.Properties)
public java.lang.String	**getProperty**(java.lang.String)
public java.lang.String	**getProperty**(java.lang.String, java.lang.String)
public void	**list**(java.io.PrintStream)
public void	**list**(java.io.PrintWriter)
public void	**load**(java.io.InputStream) throws java.io.IOException
public java.util.Enumeration	**propertyNames**()
public void	**save**(java.io.OutputStream, java.lang.String)
public java.lang.Object	**setProperty**(java.lang.String, java.lang.String)
public void	**store**(java.io.OutputStream, java.lang.String) throws java.io.IOException

All Page Within This Box

3.13.37 java.util.PropertyPermission

public final class java.util.PropertyPermission extends java.security.BasicPermission	
public	**PropertyPermission**(java.lang.String, java.lang.String)
public boolean	**equals**(java.lang.Object)
public java.lang.String	**getActions**()
public int	**hashCode**()
public boolean	**implies**(java.security.Permission)
public java.security.PermissionCollection	**newPermissionCollection**()

3.13.38 java.util.PropertyResourceBundle

public class java.util.PropertyResourceBundle extends java.util.ResourceBundle	
public	**PropertyResourceBundle**(java.io.InputStream) throws java.io.IOException
public java.util.Enumeration	**getKeys**()
public java.lang.Object	**handleGetObject**(java.lang.String)

3.13.39 java.util.Random

public class java.util.Random extends java.lang.Object implements java.io.Serializable	
public	**Random**()
public	**Random**(long)
protected int	**next**(int)
public boolean	**nextBoolean**()
public void	**nextBytes**(byte[])
public double	**nextDouble**()
public float	**nextFloat**()
public double	**nextGaussian**()
public int	**nextInt**()
public int	**nextInt**(int)
public long	**nextLong**()
public void	**setSeed**(long)

3.13.40 java.util.ResourceBundle

public abstract class java.util.ResourceBundle extends java.lang.Object	
protected java.util.ResourceBundle	**parent**
public	**ResourceBundle**()
public static final java.util.ResourceBundle	**getBundle**(java.lang.String) throws java.util.MissingResourceException
public static final java.util.ResourceBundle	**getBundle**(java.lang.String, java.util.Locale)
public static	**getBundle**(java.lang.String, java.util.Locale, java.lang.ClassLoader) throws

All Page Within This Box

java.util.ResourceBundle	java.util.MissingResourceException
public abstract java.util.Enumeration	**getKeys**()
public java.util.Locale	**getLocale**()
public final java.lang.Object	**getObject**(java.lang.String) throws java.util.MissingResourceException
public final java.lang.String	**getString**(java.lang.String) throws java.util.MissingResourceException
public final java.lang.String	**getStringArray**(java.lang.String) throws java.util.MissingResourceException
protected abstract java.lang.Object	**handleGetObject**(java.lang.String) throws java.util.MissingResourceException
protected void	**setParent**(java.util.ResourceBundle)

3.13.41 java.util.Set

public abstract interface java.util.Set extends java.util.Collection	
public boolean	**add**(java.lang.Object)
public boolean	**addAll**(java.util.Collection)
public void	**clear**()
public boolean	**contains**(java.lang.Object)
public boolean	**containsAll**(java.util.Collection)
public boolean	**equals**(java.lang.Object)
public int	**hashCode**()
public boolean	**isEmpty**()
public java.util.Iterator	**iterator**()
public boolean	**remove**(java.lang.Object)
public boolean	**removeAll**(java.util.Collection)
public boolean	**retainAll**(java.util.Collection)
public int	**size**()
public java.lang.Object	**toArray**()
public java.lang.Object	**toArray**(java.lang.Object[])

3.13.42 java.util.SimpleTimeZone

public class java.util.SimpleTimeZone extends java.util.TimeZone	
public	**SimpleTimeZone**(int, java.lang.String)
public	**SimpleTimeZone**(int, java.lang.String, int, int, int, int, int, int, int, int)
public	**SimpleTimeZone**(int, java.lang.String, int, int, int, int, int, int, int, int, int)
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public int	**getDSTSavings**()
public int	**getOffset**(int, int, int, int, int, int)
public int	**getRawOffset**()
public boolean	**hasSameRules**(java.util.TimeZone)

public int	**hashCode**()
public boolean	**inDaylightTime**(java.util.Date)
public void	**setDSTSavings**(int)
public void	**setEndRule**(int, int, int, int)
public void	**setEndRule**(int, int, int)
public void	**setEndRule**(int, int, int, int, boolean)
public void	**setRawOffset**(int)
public void	**setStartRule**(int, int, int, int)
public void	**setStartRule**(int, int, int)
public void	**setStartRule**(int, int, int, int, boolean)
public void	**setStartYear**(int)
public java.lang.String	**toString**()
public boolean	**useDaylightTime**()

3.13.43 java.util.SortedMap

public abstract interface java.util.SortedMap extends java.util.Map	
public java.util.Comparator	**comparator**()
public java.lang.Object	**firstKey**()
public java.util.SortedMap	**headMap**(java.lang.Object)
public java.lang.Object	**lastKey**()
public java.util.SortedMap	**subMap**(java.lang.Object, java.lang.Object)
public java.util.SortedMap	**tailMap**(java.lang.Object)

3.13.44 java.util.SortedSet

public abstract interface java.util.SortedSet extends java.util.Set	
public java.util.Comparator	**comparator**()
public java.lang.Object	**first**()
public java.util.SortedSet	**headSet**(java.lang.Object)
public java.lang.Object	**last**()
public java.util.SortedSet	**subSet**(java.lang.Object, java.lang.Object)
public java.util.SortedSet	**tailSet**(java.lang.Object)

3.13.45 java.util.Stack

public class java.util.Stack extends java.util.Vector	
public	**Stack**()
public boolean	**empty**()
public java.lang.Object	**peek**()
public java.lang.Object	**pop**()
public java.lang.Object	**push**(java.lang.Object)
public int	**search**(java.lang.Object)

All Page Within This Box

3.13.46 java.util.StringTokenizer

public class java.util.StringTokenizer extends java.lang.Object implements java.util.Enumeration	
public	**StringTokenizer**(java.lang.String, java.lang.String, boolean)
public	**StringTokenizer**(java.lang.String, java.lang.String)
public	**StringTokenizer**(java.lang.String)
public int	**countTokens**()
public boolean	**hasMoreElements**()
public boolean	**hasMoreTokens**()
public java.lang.Object	**nextElement**()
public java.lang.String	**nextToken**()
public java.lang.String	**nextToken**(java.lang.String)

3.13.47 java.util.TimeZone

public abstract class java.util.TimeZone extends java.lang.Object implements java.io.Serializable, java.lang.Cloneable	
public static final int	**LONG**
public static final int	**SHORT**
public	**TimeZone**()
public java.lang.Object	**clone**()
public static java.lang.String	**getAvailableIDs**(int)
public static java.lang.String	**getAvailableIDs**()
public static java.util.TimeZone	**getDefault**()
public final java.lang.String	**getDisplayName**()
public final java.lang.String	**getDisplayName**(java.util.Locale)
public final java.lang.String	**getDisplayName**(boolean, int)
public java.lang.String	**getDisplayName**(boolean, int, java.util.Locale)
public java.lang.String	**getID**()
public abstract int	**getOffset**(int, int, int, int, int, int)
public abstract int	**getRawOffset**()
public static java.util.TimeZone	**getTimeZone**(java.lang.String)
public boolean	**hasSameRules**(java.util.TimeZone)
public abstract boolean	**inDaylightTime**(java.util.Date)
public static void	**setDefault**(java.util.TimeZone)
public void	**setID**(java.lang.String)
public abstract void	**setRawOffset**(int)
public abstract boolean	**useDaylightTime**()

3.13.48 java.util.Timer

public class java.util.Timer extends java.lang.Object	
public	**Timer**()

public	**Timer**(boolean)
public void	**cancel**()
public void	**schedule**(java.util.TimerTask, long)
public void	**schedule**(java.util.TimerTask, java.util.Date)
public void	**schedule**(java.util.TimerTask, long, long)
public void	**schedule**(java.util.TimerTask, java.util.Date, long)
public void	**scheduleAtFixedRate**(java.util.TimerTask, long, long)
public void	**scheduleAtFixedRate**(java.util.TimerTask, java.util.Date, long)

3.13.49 java.util.TimerTask

public abstract class java.util.TimerTask extends java.lang.Object implements java.lang.Runnable	
protected	**TimerTask**()
public boolean	**cancel**()
public abstract void	**run**()
public long	**scheduledExecutionTime**()

3.13.50 java.util.TooManyListenersException

public class java.util.TooManyListenersException extends java.lang.Exception	
public	**TooManyListenersException**()
public	**TooManyListenersException**(java.lang.String)

3.13.51 java.util.TreeMap

public class java.util.TreeMap extends java.util.AbstractMap implements java.util.SortedMap, java.lang.Cloneable, java.io.Serializable	
public	**TreeMap**()
public	**TreeMap**(java.util.Comparator)
public	**TreeMap**(java.util.Map)
public	**TreeMap**(java.util.SortedMap)
public void	**clear**()
public java.lang.Object	**clone**()
public java.util.Comparator	**comparator**()
public boolean	**containsKey**(java.lang.Object)
public boolean	**containsValue**(java.lang.Object)
public java.util.Set	**entrySet**()
public java.lang.Object	**firstKey**()
public java.lang.Object	**get**(java.lang.Object)
public java.util.SortedMap	**headMap**(java.lang.Object)
public java.util.Set	**keySet**()
public java.lang.Object	**lastKey**()
public java.lang.Object	**put**(java.lang.Object, java.lang.Object)

All Page Within This Box

public void	**putAll**(java.util.Map)
public java.lang.Object	**remove**(java.lang.Object)
public int	**size**()
public java.util.SortedMap	**subMap**(java.lang.Object, java.lang.Object)
public java.util.SortedMap	**tailMap**(java.lang.Object)
public java.util.Collection	**values**()

3.13.52 java.util.TreeSet

public class java.util.TreeSet extends java.util.AbstractSet implements java.util.SortedSet, java.lang.Cloneable, java.io.Serializable	
public	**TreeSet**()
public	**TreeSet**(java.util.Comparator)
public	**TreeSet**(java.util.Collection)
public	**TreeSet**(java.util.SortedSet)
public boolean	**add**(java.lang.Object)
public boolean	**addAll**(java.util.Collection)
public void	**clear**()
public java.lang.Object	**clone**()
public java.util.Comparator	**comparator**()
public boolean	**contains**(java.lang.Object)
public java.lang.Object	**first**()
public java.util.SortedSet	**headSet**(java.lang.Object)
public boolean	**isEmpty**()
public java.util.Iterator	**iterator**()
public java.lang.Object	**last**()
public boolean	**remove**(java.lang.Object)
public int	**size**()
public java.util.SortedSet	**subSet**(java.lang.Object, java.lang.Object)
public java.util.SortedSet	**tailSet**(java.lang.Object)

3.13.53 java.util.Vector

public class java.util.Vector extends java.util.AbstractList implements java.util.List, java.lang.Cloneable, java.io.Serializable	
protected int	**capacityIncrement**
protected int	**elementCount**
protected java.lang.Object	**elementData**
public	**Vector**(int, int)
public	**Vector**(int)
public	**Vector**()
public	**Vector**(java.util.Collection)

public boolean	**add**(java.lang.Object)
public void	**add**(int, java.lang.Object)
public boolean	**addAll**(java.util.Collection)
public boolean	**addAll**(int, java.util.Collection)
public void	**addElement**(java.lang.Object)
public int	**capacity**()
public void	**clear**()
public java.lang.Object	**clone**()
public boolean	**contains**(java.lang.Object)
public boolean	**containsAll**(java.util.Collection)
public void	**copyInto**(java.lang.Object[])
public java.lang.Object	**elementAt**(int)
public java.util.Enumeration	**elements**()
public void	**ensureCapacity**(int)
public boolean	**equals**(java.lang.Object)
public java.lang.Object	**firstElement**()
public java.lang.Object	**get**(int)
public int	**hashCode**()
public int	**indexOf**(java.lang.Object)
public int	**indexOf**(java.lang.Object, int)
public void	**insertElementAt**(java.lang.Object, int)
public boolean	**isEmpty**()
public java.lang.Object	**lastElement**()
public int	**lastIndexOf**(java.lang.Object)
public int	**lastIndexOf**(java.lang.Object, int)
public boolean	**remove**(java.lang.Object)
public java.lang.Object	**remove**(int)
public boolean	**removeAll**(java.util.Collection)
public void	**removeAllElements**()
public boolean	**removeElement**(java.lang.Object)
public void	**removeElementAt**(int)
protected void	**removeRange**(int, int)
public boolean	**retainAll**(java.util.Collection)
public java.lang.Object	**set**(int, java.lang.Object)
public void	**setElementAt**(java.lang.Object, int)
public void	**setSize**(int)
public int	**size**()
public java.util.List	**subList**(int, int)
public java.lang.Object	**toArray**()

All Page Within This Box

public java.lang.Object	**toArray**(java.lang.Object[])
public java.lang.String	**toString**()
public void	**trimToSize**()

3.13.54 java.util.WeakHashMap

public class java.util.WeakHashMap extends java.util.AbstractMap implements java.util.Map	
public	**WeakHashMap**(int, float)
public	**WeakHashMap**(int)
public	**WeakHashMap**()
public	**WeakHashMap**(java.util.Map)
public void	**clear**()
public boolean	**containsKey**(java.lang.Object)
public java.util.Set	**entrySet**()
public java.lang.Object	**get**(java.lang.Object)
public boolean	**isEmpty**()
public java.lang.Object	**put**(java.lang.Object, java.lang.Object)
public java.lang.Object	**remove**(java.lang.Object)
public int	**size**()

3.14 Package java.util.jar

3.14.1 java.util.jar.Attributes

public class java.util.jar.Attributes extends java.lang.Object implements java.util.Map, java.lang.Cloneable	
protected java.util.Map	**map**
public	**Attributes**()
public	**Attributes**(int)
public	**Attributes**(java.util.jar.Attributes)
public void	**clear**()
public java.lang.Object	**clone**()
public boolean	**containsKey**(java.lang.Object)
public boolean	**containsValue**(java.lang.Object)
public java.util.Set	**entrySet**()
public boolean	**equals**(java.lang.Object)
public java.lang.Object	**get**(java.lang.Object)
public java.lang.String	**getValue**(java.lang.String)
public java.lang.String	**getValue**(java.util.jar.Attributes.Name)
public int	**hashCode**()
public boolean	**isEmpty**()
public java.util.Set	**keySet**()
public java.lang.Object	**put**(java.lang.Object, java.lang.Object)

All Page Within This Box

public void	**putAll**(java.util.Map)
public java.lang.String	**putValue**(java.lang.String, java.lang.String)
public java.lang.Object	**remove**(java.lang.Object)
public int	**size**()
public java.util.Collection	**values**()

3.14.2 java.util.jar.Attributes.Name

public class java.util.jar.Attributes.Name extends java.lang.Object	
public static final java.util.jar.Attributes.Name	**CLASS_PATH**
public static final java.util.jar.Attributes.Name	**CONTENT_TYPE**
public static final java.util.jar.Attributes.Name	**EXTENSION_INSTALLATION**
public static final java.util.jar.Attributes.Name	**EXTENSION_LIST**
public static final java.util.jar.Attributes.Name	**EXTENSION_NAME**
public static final java.util.jar.Attributes.Name	**IMPLEMENTATION_TITLE**
public static final java.util.jar.Attributes.Name	**IMPLEMENTATION_URL**
public static final java.util.jar.Attributes.Name	**IMPLEMENTATION_VENDOR**
public static final java.util.jar.Attributes.Name	**IMPLEMENTATION_VENDOR_ID**
public static final java.util.jar.Attributes.Name	**IMPLEMENTATION_VERSION**
public static final java.util.jar.Attributes.Name	**MAIN_CLASS**
public static final java.util.jar.Attributes.Name	**MANIFEST_VERSION**
public static final java.util.jar.Attributes.Name	**SEALED**
public static final java.util.jar.Attributes.Name	**SIGNATURE_VERSION**
public static final java.util.jar.Attributes.Name	**SPECIFICATION_TITLE**
public static final java.util.jar.Attributes.Name	**SPECIFICATION_VENDOR**
public static final java.util.jar.Attributes.Name	**SPECIFICATION_VERSION**
public	**Attributes.Name**(java.lang.String)
public boolean	**equals**(java.lang.Object)

All Page Within This Box

public int	**hashCode**()
public java.lang.String	**toString**()

3.14.3 java.util.jar.JarEntry

public class java.util.jar.JarEntry extends java.util.zip.ZipEntry	
public	**JarEntry**(java.lang.String)
public	**JarEntry**(java.util.zip.ZipEntry)
public	**JarEntry**(java.util.jar.JarEntry)
public java.util.jar.Attributes	**getAttributes**() throws java.io.IOException
public java.security.cert.Certificate	**getCertificates**()

3.14.4 java.util.jar.JarException

public class java.util.jar.JarException extends java.util.zip.ZipException	
public	**JarException**()
public	**JarException**(java.lang.String)

3.14.5 java.util.jar.JarFile

public class java.util.jar.JarFile extends java.util.zip.ZipFile	
public static final java.lang.String	**MANIFEST_NAME**
public	**JarFile**(java.lang.String) throws java.io.IOException
public	**JarFile**(java.lang.String, boolean) throws java.io.IOException
public	**JarFile**(java.io.File) throws java.io.IOException
public	**JarFile**(java.io.File, boolean) throws java.io.IOException
public	**JarFile**(java.io.File, boolean, int) throws java.io.IOException
public java.util.Enumeration	**entries**()
public java.util.zip.ZipEntry	**getEntry**(java.lang.String)
public java.io.InputStream	**getInputStream**(java.util.zip.ZipEntry) throws java.io.IOException
public java.util.jar.JarEntry	**getJarEntry**(java.lang.String)
public java.util.jar.Manifest	**getManifest**() throws java.io.IOException

3.14.6 java.util.jar.JarInputStream

public class java.util.jar.JarInputStream extends java.util.zip.ZipInputStream	
public	**JarInputStream**(java.io.InputStream) throws java.io.IOException
public	**JarInputStream**(java.io.InputStream, boolean) throws java.io.IOException
protected java.util.zip.ZipEntry	**createZipEntry**(java.lang.String)
public java.util.jar.Manifest	**getManifest**()
public java.util.zip.ZipEntry	**getNextEntry**() throws java.io.IOException
public java.util.jar.JarEntry	**getNextJarEntry**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException

3.14.7 java.util.jar.JarOutputStream

public class java.util.jar.JarOutputStream extends java.util.zip.ZipOutputStream	
public	**JarOutputStream**(java.io.OutputStream, java.util.jar.Manifest) throws java.io.IOException
public	**JarOutputStream**(java.io.OutputStream) throws java.io.IOException
public void	**putNextEntry**(java.util.zip.ZipEntry) throws java.io.IOException

3.14.8 java.util.jar.Manifest

public class java.util.jar.Manifest extends java.lang.Object implements java.lang.Cloneable	
public	**Manifest**()
public	**Manifest**(java.io.InputStream) throws java.io.IOException
public	**Manifest**(java.util.jar.Manifest)
public void	**clear**()
public java.lang.Object	**clone**()
public boolean	**equals**(java.lang.Object)
public java.util.jar.Attributes	**getAttributes**(java.lang.String)
public java.util.Map	**getEntries**()
public java.util.jar.Attributes	**getMainAttributes**()
public int	**hashCode**()
public void	**read**(java.io.InputStream) throws java.io.IOException
public void	**write**(java.io.OutputStream) throws java.io.IOException

3.15 Package java.util.zip

3.15.1 java.util.zip.Adler32

public class java.util.zip.Adler32 extends java.lang.Object implements java.util.zip.Checksum	
public	**Adler32**()
public long	**getValue**()
public void	**reset**()
public void	**update**(int)
public void	**update**(byte[], int, int)
public void	**update**(byte[])

3.15.2 java.util.zip.CRC32

public class java.util.zip.CRC32 extends java.lang.Object implements java.util.zip.Checksum	
public	**CRC32**()
public long	**getValue**()
public void	**reset**()
public void	**update**(int)
public void	**update**(byte[], int, int)
public void	**update**(byte[])

All Page Within This Box

3.15.3 java.util.zip.CheckedInputStream

public class java.util.zip.CheckedInputStream extends java.io.FilterInputStream	
public	**CheckedInputStream**(java.io.InputStream, java.util.zip.Checksum)
public java.util.zip.Checksum	**getChecksum**()
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.15.4 java.util.zip.CheckedOutputStream

public class java.util.zip.CheckedOutputStream extends java.io.FilterOutputStream	
public	**CheckedOutputStream**(java.io.OutputStream, java.util.zip.Checksum)
public java.util.zip.Checksum	**getChecksum**()
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException

3.15.5 java.util.zip.Checksum

public abstract interface java.util.zip.Checksum	
public long	**getValue**()
public void	**reset**()
public void	**update**(int)
public void	**update**(byte[], int, int)

3.15.6 java.util.zip.DataFormatException

public class java.util.zip.DataFormatException extends java.lang.Exception	
public	**DataFormatException**()
public	**DataFormatException**(java.lang.String)

3.15.7 java.util.zip.Deflater

public class java.util.zip.Deflater extends java.lang.Object	
public static final int	**BEST_COMPRESSION**
public static final int	**BEST_SPEED**
public static final int	**DEFAULT_COMPRESSION**
public static final int	**DEFAULT_STRATEGY**
public static final int	**DEFLATED**
public static final int	**FILTERED**
public static final int	**HUFFMAN_ONLY**
public static final int	**NO_COMPRESSION**
public	**Deflater**(int, boolean)
public	**Deflater**(int)
public	**Deflater**()
public int	**deflate**(byte[], int, int)

All Page Within This Box

public int	**deflate**(byte[])
public void	**end**()
protected void	**finalize**()
public void	**finish**()
public boolean	**finished**()
public int	**getAdler**()
public int	**getTotalIn**()
public int	**getTotalOut**()
public boolean	**needsInput**()
public void	**reset**()
public void	**setDictionary**(byte[], int, int)
public void	**setDictionary**(byte[])
public void	**setInput**(byte[], int, int)
public void	**setInput**(byte[])
public void	**setLevel**(int)
public void	**setStrategy**(int)

3.15.8 java.util.zip.DeflaterOutputStream

public class java.util.zip.DeflaterOutputStream extends java.io.FilterOutputStream	
protected byte	**buf**
protected java.util.zip.Deflater	**def**
public	**DeflaterOutputStream**(java.io.OutputStream, java.util.zip.Deflater, int)
public	**DeflaterOutputStream**(java.io.OutputStream, java.util.zip.Deflater)
public	**DeflaterOutputStream**(java.io.OutputStream)
public void	**close**() throws java.io.IOException
protected void	**deflate**() throws java.io.IOException
public void	**finish**() throws java.io.IOException
public void	**write**(int) throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException

3.15.9 java.util.zip.GZIPInputStream

public class java.util.zip.GZIPInputStream extends java.util.zip.InflaterInputStream	
public static final int	**GZIP_MAGIC**
protected java.util.zip.CRC32	**crc**
protected boolean	**eos**
public	**GZIPInputStream**(java.io.InputStream, int) throws java.io.IOException
public	**GZIPInputStream**(java.io.InputStream) throws java.io.IOException
public void	**close**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException

All Page Within This Box

3.15.10 java.util.zip.GZIPOutputStream

public class java.util.zip.GZIPOutputStream extends java.util.zip.DeflaterOutputStream	
protected java.util.zip.CRC32	**crc**
public	**GZIPOutputStream**(java.io.OutputStream, int) throws java.io.IOException
public	**GZIPOutputStream**(java.io.OutputStream) throws java.io.IOException
public void	**close**() throws java.io.IOException
public void	**finish**() throws java.io.IOException
public void	**write**(byte[], int, int) throws java.io.IOException

3.15.11 java.util.zip.Inflater

public class java.util.zip.Inflater extends java.lang.Object	
public	**Inflater**(boolean)
public	**Inflater**()
public void	**end**()
protected void	**finalize**()
public boolean	**finished**()
public int	**getAdler**()
public int	**getRemaining**()
public int	**getTotalIn**()
public int	**getTotalOut**()
public int	**inflate**(byte[], int, int) throws java.util.zip.DataFormatException
public int	**inflate**(byte[]) throws java.util.zip.DataFormatException
public boolean	**needsDictionary**()
public boolean	**needsInput**()
public void	**reset**()
public void	**setDictionary**(byte[], int, int)
public void	**setDictionary**(byte[])
public void	**setInput**(byte[], int, int)
public void	**setInput**(byte[])

3.15.12 java.util.zip.InflaterInputStream

public class java.util.zip.InflaterInputStream extends java.io.FilterInputStream	
protected byte	**buf**
protected java.util.zip.Inflater	**inf**
protected int	**len**
public	**InflaterInputStream**(java.io.InputStream, java.util.zip.Inflater, int)
public	**InflaterInputStream**(java.io.InputStream, java.util.zip.Inflater)
public	**InflaterInputStream**(java.io.InputStream)
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException

All Page Within This Box

protected void	**fill**() throws java.io.IOException
public int	**read**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.15.13 java.util.zip.ZipConstants

abstract interface ZipConstants	
public static final long	**LOCSIG**
public static final long	**EXTSIG**
public static final long	**CENSIG**
public static final long	**ENDSIG**
public static final int	**LOCHDR**
public static final int	**EXTHDR**
public static final int	**CENHDR**
public static final int	**ENDHDR**
public static final int	**LOCVER**
public static final int	**LOCFLG**
public static final int	**LOCHOW**
public static final int	**LOCTIM**
public static final int	**LOCCRC**
public static final int	**LOCSIZ**
public static final int	**LOCLEN**
public static final int	**LOCNAM**
public static final int	**LOCEXT**
public static final int	**EXTCRC**
public static final int	**EXTSIZ**
public static final int	**EXTLEN**
public static final int	**CENVEM**
public static final int	**CENVER**
public static final int	**CENFLG**
public static final int	**CENHOW**
public static final int	**CENTIM**
public static final int	**CENCRC**
public static final int	**CENSIZ**
public static final int	**CENLEN**
public static final int	**CENNAM**
public static final int	**CENEXT**
public static final int	**CENCOM**
public static final int	**CENDSK**
public static final int	**CENATT**
public static final int	**CENATX**
public static final int	**CENOFF**
public static final int	**ENDSUB**
public static final int	**ENDTOT**
public static final int	**ENDSIZ**
public static final int	**ENDOFF**
public static final int	**ENDCOM**

3.15.14 java.util.zip.ZipEntry

public class java.util.zip.ZipEntry extends java.lang.Object implements java.util.zip.ZipConstants

java.lang.Cloneable	
public static final int	**DEFLATED**
public static final int	**STORED**
public	**ZipEntry**(java.lang.String)
public	**ZipEntry**(java.util.zip.ZipEntry)
public java.lang.Object	**clone**()
public java.lang.String	**getComment**()
public long	**getCompressedSize**()
public long	**getCrc**()
public byte	**getExtra**()
public int	**getMethod**()
public java.lang.String	**getName**()
public long	**getSize**()
public long	**getTime**()
public int	**hashCode**()
public boolean	**isDirectory**()
public void	**setComment**(java.lang.String)
public void	**setCompressedSize**(long)
public void	**setCrc**(long)
public void	**setExtra**(byte[])
public void	**setMethod**(int)
public void	**setSize**(long)
public void	**setTime**(long)
public java.lang.String	**toString**()

3.15.15 java.util.zip.ZipException

public class java.util.zip.ZipException extends java.io.IOException	
public	**ZipException**()
public	**ZipException**(java.lang.String)

3.15.16 java.util.zip.ZipFile

public class java.util.zip.ZipFile extends java.lang.Object implements java.util.zip.ZipConstants	
public static final int	**OPEN_DELETE**
public static final int	**OPEN_READ**
public	**ZipFile**(java.lang.String) throws java.io.IOException
public	**ZipFile**(java.io.File, int) throws java.io.IOException
public	**ZipFile**(java.io.File) throws java.util.zip.ZipException, java.io.IOException
public void	**close**() throws java.io.IOException
public java.util.Enumeration	**entries**()
protected void	**finalize**() throws java.io.IOException

All Page Within This Box

public java.util.zip.ZipEntry	**getEntry**(java.lang.String)
public java.io.InputStream	**getInputStream**(java.util.zip.ZipEntry) throws java.io.IOException
public java.lang.String	**getName**()
public int	**size**()

3.15.17 java.util.zip.ZipInputStream

public class java.util.zip.ZipInputStream extends java.util.zip.InflaterInputStream implements java.util.zip.ZipConstants	
public	**ZipInputStream**(java.io.InputStream)
public int	**available**() throws java.io.IOException
public void	**close**() throws java.io.IOException
public void	**closeEntry**() throws java.io.IOException
protected java.util.zip.ZipEntry	**createZipEntry**(java.lang.String)
public java.util.zip.ZipEntry	**getNextEntry**() throws java.io.IOException
public int	**read**(byte[], int, int) throws java.io.IOException
public long	**skip**(long) throws java.io.IOException

3.15.18 java.util.zip.ZipOutputStream

public class java.util.zip.ZipOutputStream extends java.util.zip.DeflaterOutputStream implements java.util.zip.ZipConstants	
public static final int	**DEFLATED**
public static final int	**STORED**
public	**ZipOutputStream**(java.io.OutputStream)
public void	**close**() throws java.io.IOException
public void	**closeEntry**() throws java.io.IOException
public void	**finish**() throws java.io.IOException
public void	**putNextEntry**(java.util.zip.ZipEntry) throws java.io.IOException
public void	**setComment**(java.lang.String)
public void	**setLevel**(int)
public void	**setMethod**(int)
public void	**write**(byte[], int, int) throws java.io.IOException

3.16 Package javax.microedition.io

3.16.1 javax.microedition.io.Connection

public abstract interface javax.microedition.io.Connection	
public void	**close**() throws java.io.IOException

3.16.2 javax.microedition.io.ConnectionNotFoundException

public class javax.microedition.io.ConnectionNotFoundException extends java.io.IOException	
public	**ConnectionNotFoundException**()

OSGi

public	**ConnectionNotFoundException**(java.lang.String)

3.16.3 javax.microedition.io.Connector

public class javax.microedition.io.Connector extends java.lang.Object	
public static final int	**READ**
public static final int	**READ_WRITE**
public static final int	**WRITE**
public static javax.microedition.io.Connection	**open**(java.lang.String) throws java.io.IOException
public static javax.microedition.io.Connection	**open**(java.lang.String, int) throws java.io.IOException
public static javax.microedition.io.Connection	**open**(java.lang.String, int, boolean) throws java.io.IOException
public static java.io.DataInputStream	**openDataInputStream**(java.lang.String) throws java.io.IOException
public static java.io.DataOutputStream	**openDataOutputStream**(java.lang.String) throws java.io.IOException
public static java.io.InputStream	**openInputStream**(java.lang.String) throws java.io.IOException
public static java.io.OutputStream	**openOutputStream**(java.lang.String) throws java.io.IOException

3.16.4 javax.microedition.io.ContentConnection

public abstract interface javax.microedition.io.ContentConnection extends javax.microedition.io.StreamConnection	
public java.lang.String	**getEncoding**()
public long	**getLength**()
public java.lang.String	**getType**()

3.16.5 javax.microedition.io.Datagram

public abstract interface javax.microedition.io.Datagram extends java.io.DataInput, java.io.DataOutput	
public java.lang.String	**getAddress**()
public byte	**getData**()
public int	**getLength**()
public int	**getOffset**()
public void	**reset**()
public void	**setAddress**(java.lang.String) throws java.io.IOException
public void	**setAddress**(javax.microedition.io.Datagram)
public void	**setData**(byte[], int, int)
public void	**setLength**(int)

3.16.6 javax.microedition.io.DatagramConnection

public abstract interface javax.microedition.io.DatagramConnection extends javax.microedition.io.Connection	

All Page Within This Box

public int	**getMaximumLength**() throws java.io.IOException
public int	**getNominalLength**() throws java.io.IOException
public javax.microedition.io.Datagram	**newDatagram**(int) throws java.io.IOException
public javax.microedition.io.Datagram	**newDatagram**(int, java.lang.String) throws java.io.IOException
public javax.microedition.io.Datagram	**newDatagram**(byte[], int) throws java.io.IOException
public javax.microedition.io.Datagram	**newDatagram**(byte[], int, java.lang.String) throws java.io.IOException
public void	**receive**(javax.microedition.io.Datagram) throws java.io.IOException
public void	**send**(javax.microedition.io.Datagram) throws java.io.IOException

3.16.7 javax.microedition.io.HttpConnection

public abstract interface javax.microedition.io.HttpConnection extends javax.microedition.io.ContentConnection	
public static final java.lang.String	**GET**
public static final java.lang.String	**HEAD**
public static final int	**HTTP_ACCEPTED**
public static final int	**HTTP_BAD_GATEWAY**
public static final int	**HTTP_BAD_METHOD**
public static final int	**HTTP_BAD_REQUEST**
public static final int	**HTTP_CLIENT_TIMEOUT**
public static final int	**HTTP_CONFLICT**
public static final int	**HTTP_CREATED**
public static final int	**HTTP_ENTITY_TOO_LARGE**
public static final int	**HTTP_EXPECT_FAILED**
public static final int	**HTTP_FORBIDDEN**
public static final int	**HTTP_GATEWAY_TIMEOUT**
public static final int	**HTTP_GONE**
public static final int	**HTTP_INTERNAL_ERROR**
public static final int	**HTTP_LENGTH_REQUIRED**
public static final int	**HTTP_MOVED_PERM**
public static final int	**HTTP_MOVED_TEMP**
public static final int	**HTTP_MULT_CHOICE**
public static final int	**HTTP_NOT_ACCEPTABLE**
public static final int	**HTTP_NOT_AUTHORITATIVE**
public static final int	**HTTP_NOT_FOUND**
public static final int	**HTTP_NOT_IMPLEMENTED**
public static final int	**HTTP_NOT_MODIFIED**
public static final int	**HTTP_NO_CONTENT**

All Page Within This Box

OSGi

public static final int	**HTTP_OK**
public static final int	**HTTP_PARTIAL**
public static final int	**HTTP_PAYMENT_REQUIRED**
public static final int	**HTTP_PRECON_FAILED**
public static final int	**HTTP_PROXY_AUTH**
public static final int	**HTTP_REQ_TOO_LONG**
public static final int	**HTTP_RESET**
public static final int	**HTTP_SEE_OTHER**
public static final int	**HTTP_TEMP_REDIRECT**
public static final int	**HTTP_UNAUTHORIZED**
public static final int	**HTTP_UNAVAILABLE**
public static final int	**HTTP_UNSUPPORTED_RANGE**
public static final int	**HTTP_UNSUPPORTED_TYPE**
public static final int	**HTTP_USE_PROXY**
public static final int	**HTTP_VERSION**
public static final java.lang.String	**POST**
public long	**getDate**() throws java.io.IOException
public long	**getExpiration**() throws java.io.IOException
public java.lang.String	**getFile**()
public java.lang.String	**getHeaderField**(java.lang.String) throws java.io.IOException
public java.lang.String	**getHeaderField**(int) throws java.io.IOException
public long	**getHeaderFieldDate**(java.lang.String, long) throws java.io.IOException
public int	**getHeaderFieldInt**(java.lang.String, int) throws java.io.IOException
public java.lang.String	**getHeaderFieldKey**(int) throws java.io.IOException
public java.lang.String	**getHost**()
public long	**getLastModified**() throws java.io.IOException
public int	**getPort**()
public java.lang.String	**getProtocol**()
public java.lang.String	**getQuery**()
public java.lang.String	**getRef**()
public java.lang.String	**getRequestMethod**()
public java.lang.String	**getRequestProperty**(java.lang.String)
public int	**getResponseCode**() throws java.io.IOException
public java.lang.String	**getResponseMessage**() throws java.io.IOException
public java.lang.String	**getURL**()
public void	**setRequestMethod**(java.lang.String) throws java.io.IOException
public void	**setRequestProperty**(java.lang.String, java.lang.String) throws java.io.IOException

All Page Within This Box

3.16.8 javax.microedition.io.InputConnection

public abstract interface javax.microedition.io.InputConnection extends javax.microedition.io.Connection	
public java.io.DataInputStream	**openDataInputStream**() throws java.io.IOException
public java.io.InputStream	**openInputStream**() throws java.io.IOException

3.16.9 javax.microedition.io.OutputConnection

public abstract interface javax.microedition.io.OutputConnection extends javax.microedition.io.Connection	
public java.io.DataOutputStream	**openDataOutputStream**() throws java.io.IOException
public java.io.OutputStream	**openOutputStream**() throws java.io.IOException

3.16.10 javax.microedition.io.StreamConnection

public abstract interface javax.microedition.io.StreamConnection extends javax.microedition.io.InputConnection, javax.microedition.io.OutputConnection

3.16.11 javax.microedition.io.StreamConnectionNotifier

public abstract interface javax.microedition.io.StreamConnectionNotifier extends javax.microedition.io.Connection	
public javax.microedition.io.StreamConnection	**acceptAndOpen**() throws java.io.IOException

4 Security Considerations

This proposal includes support for the Java 2 Security Model, certificate management, and digital signatures.

5 Document Support

5.1 References

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All Page Within This Box

OSGi

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5.2 Authors' Addresses

Name	David Bowen
Company	Sun Microsystems, Inc.
Address	901 San Antonio Road, Palo Alto, CA 94303, U.S.A.
Voice	+1 408 343 1407
e-mail	david.bowen@sun.com
Name	Kirk Chen
Company	Sun Microsystems, Inc.
Address	901 San Antonio Road, Palo Alto, CA 94303, U.S.A.
Voice	+1 408 276 7388
e-mail	kirk.chen@sun.com

5.3 Acronyms and Abbreviations

5.4 End of Document

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