Programación Orientada a Objetos Entrada-Salida

CEIS

2025-1

Agenda

Conceptos

En general En java

Objetos

Mecanismo Batalla Naval

Texto-Archivos

Mecanismo Batalla Naval

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Conceptos

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Objetos

Mecanismo Batalla Naval

Texto-Archivo

Mecanismo Batalla Naval

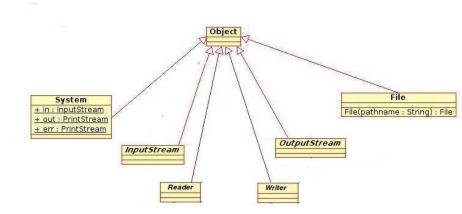
Caracteres-Estandar

Mecanismo Batalla Naval Final

¿Desde dónde? ¿Hacia dónde?

¿Cómo?

- ► Como máquina, ¿qué es lo real?
- ► Como humanos, ¿qué queremos ver?
- Como lenguaje O.O, ¿qué querría ver?



java.io Class IOException

java.lang.Object
Ljava.lang.Throwable
Ljava.lang.Exception
Ljava.io.IOException

All Implemented Interfaces:

Serializable

Direct Known Subclasses:

Changed CharSetException. CharacterCodingException CharConversionException.

ClosedChannelException | EOFException, FileLockInterruptionException, FileNotFoundException, HttpRetryException, IDException, InterruptedIOException, InvalidPropertiesFormatException, JMXFroviderException, JMXServoiderException, JMXServoiderException, JMXServoiderException, ProtocolException, MalformedURLException, SocketException, ObjectStreamException, ProtocolException, RemoteException, SasIException, SocketException, SSLException, SyncFailedException, UnknownHostException, UnknownServiceException, UnsupportedEncodingException, UTFDataFormatException, JipException

Agenda

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En general En iava

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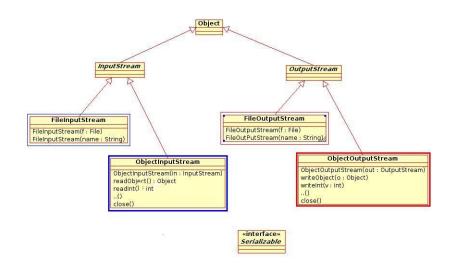
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Para escribir

```
Worm w = new Worm(6, 'a');
System.out.println("w = " + w);
ObjectOutputStream out = new ObjectOutputStream(
   new FileOutputStream("worm.out"));
out.writeObject("Worm storage\n");
out.writeObject(w);
out.close();
```



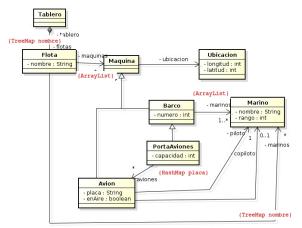
Para leer

```
ObjectInputStream in = new ObjectInputStream(
  new FileInputStream("worm.out"));
String s = (String)in.readObject();
Worm w2 = (Worm)in.readObject();
System.out.println(s + "w2 = " + w2);
in.close();
```

Excepciones

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Como objeto



- salve(archivo:String)
- cargue(archivo:String)



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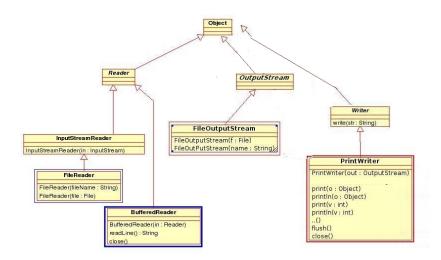
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Texto-Archivos

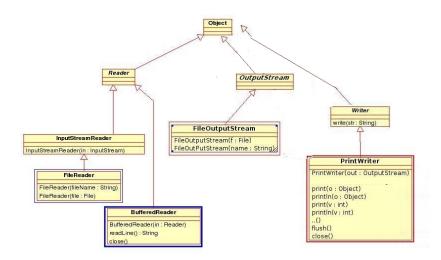
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Escribir



Java API

trim

public String trim()

Returns a copy of the string, with leading and trailing whitespace omitted.

If this string object represents an empty character sequence, or the first and last characters of character sequence represented by this string object both have codes greater than '\u000000' (the space character), then a reference to this string object is returned.

Otherwise, if there is no character with a code greater than '\u0020' in the string, then a new string object representing an empty string is created and returned.

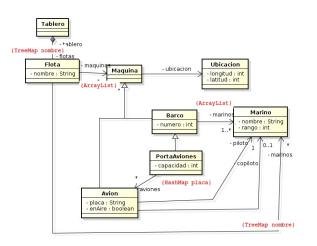
Otherwise, let k be the index of the first character in the string whose code is greater than '\u00020', and let m be the index of the last character in the string whose code is greater than '\u00020'. A new string object is created, representing the substring of this string that begins with the character at index k and ends with the character at index m-that is, the result of this substring (k, m+1).

This method may be used to trim whitespace (as defined above) from the beginning and end of a string.

Returns:

A copy of this string with leading and trailing white space removed, or this string if it has no leading or trailing white space.

Batalla Naval



- Generar, a archivo, un informe de las flotas: número de flotas y nombre y número de máquinas de cada una
- Adicionar nuevas flotas, sus nombres están en un archivo

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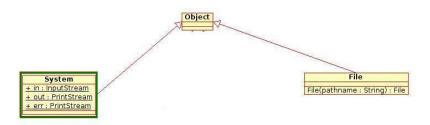
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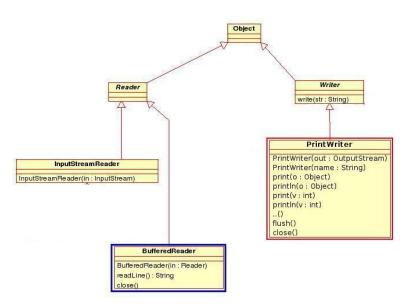
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Caracteres



Texto-Estandar

Para leer

```
import java.io.*;
public class Echo {
  public static void main(String[] args)
  throws IOException {
    BufferedReader in = new BufferedReader(
        new InputStreamReader(System.in));
    String s;
    while((s = in.readLine()) != null && s.length() != 0)
        System.out.println(s);
    // An empty line or Ctrl-Z terminates the program
  }
} ///:~
```

Texto-Estandar

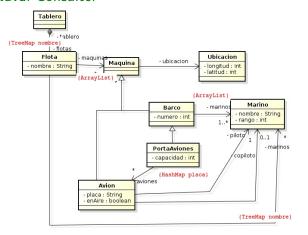
Para escribir

```
import java.io.*;

public class ChangeSystemOut {
   public static void main(String[] args) {
      PrintWriter out = new PrintWriter(System.out, true);
      out.println("Hello, world");
   }
} ///:~
```

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 Un usuario REAL quiere consultar la información básica de una flota dado su nombre

Número de máquinas



Texto-Estandar

Redireccionando

```
//: c12:Redirecting.java
// Demonstrates standard I/O redirection.
import java.io.*;
public class Redirecting {
  // Throw exceptions to console:
  public static void main (String[] args)
  throws IOException {
    PrintStream console = System.out;
    BufferedInputStream in = new BufferedInputStream(
      new FileInputStream("Redirecting.java"));
    PrintStream out = new PrintStream(
      new BufferedOutputStream (
        new FileOutputStream("test.out")));
    System.setIn(in);
    System.setOut(out);
    System.setErr(out);
    BufferedReader br = new BufferedReader (
      new InputStreamReader(System.in));
    String s;
    while((s = br.readLine()) != null)
      System.out.println(s);
    out.close(); // Remember this!
    System.setOut(console);
```

Texto-Estandar

Redireccionando- De System.

static void	setErr(PrintStream err) Reassigns the "standard" error output stream.
static void	setIn(InputStream in) Reassigns the "standard" input stream.
static void	setOut (PrintStream out) Reassigns the "standard" output stream.