

Manipulate multi files

Wednesday, July 27, 2022 6:05 PM

```
Cat.java x
1  package In_Out;
2
3  import edu.princeton.cs.algs4.In;
4  import edu.princeton.cs.algs4.Out;
5
6  public class Cat
7  {
8      public static void main(String[] args)
9      {
10         Out out = new Out(args[args.length - 1]);
11         for (int i = 0; i < args.length - 1; i++)
12         {
13             In in = new In(args[i]); // copy file name to in
14             String s = in.readAll(); // copy the content of in to s
15             out.println(s); // append s to out (the output stream)
16             in.close();
17         }
18         out.close();
19     }
20 }
```

```
~/IdeaProjects/Algorithms_4th_edition/src> java In_Out/Cat In_Out/input_1.txt In_Out/input_2.txt In_Out/output.txt
~/IdeaProjects/Algorithms_4th_edition/src> more In_Out/output.txt
This is

a tiny test.

~/IdeaProjects/Algorithms_4th_edition/src>
```

`public class In`

<code>In()</code>	<i>create an input stream from standard input</i>
<code>In(String name)</code>	<i>create an input stream from a file or website</i>
<code>boolean isEmpty()</code>	<i>true if no more input, false otherwise</i>
<code>int readInt()</code>	<i>read a value of type int</i>
<code>double readDouble()</code>	<i>read a value of type double</i>
<code>...</code>	
<code>void close()</code>	<i>close the input stream</i>

Note: all operations supported by StdIn are also supported for In objects.

API for our data type for input streams

`public class Out`

<code>Out()</code>	<i>create an output stream to standard output</i>
<code>Out(String name)</code>	<i>create an output stream to a file</i>
<code>void print(String s)</code>	<i>append s to the output stream</i>
<code>void println(String s)</code>	<i>append s and a newline to the output stream</i>
<code>void println()</code>	<i>append a newline to the output stream</i>
<code>void printf(String f, ...)</code>	<i>formatted print to the output stream</i>
<code>void close()</code>	<i>close the output stream</i>

Note: all operations supported by StdOut are also supported for Out objects.

API for our data type for output streams

`public class Draw`

<code>Draw()</code>
<code>void line(double x0, double y0, double x1, double y1)</code>
<code>void point(double x, double y)</code>
<code>...</code>

Note: all operations supported by StdDraw are also supported for Draw objects.