

```

1 // fo1/9/copy/Copy1.java
2 //
3 //
4 // Copyright 2003 Bill Campbell and Ethan Bolker
5
6 import java.io.*;
7
8 /**
9  * Simple read-a-char, write-a-char loop to exercise file I/O.
10  *
11  * Usage: java Copy1 inputFile outputFile
12  */
13
14 public class Copy1
15 {
16     private static final int EOF = -1; // end of file character rep.
17
18     /**
19      * All work is done here.
20      *
21      * @param args names of the input file and output file.
22      */
23
24     public static void main( String[] args )
25     {
26         FileReader inStream = null;
27         FileWriter outStream = null;
28         int ch;
29
30         try {
31             // open the files
32             inStream = new FileReader( args[0] );
33             outStream = new FileWriter( args[1] );
34
35             // copy
36             while ((ch = inStream.read()) != EOF) {
37                 outStream.write( ch );
38             }
39         }
40         catch (IndexOutOfBoundsException e) {
41             System.err.println(
42                 "usage: java Copy1 sourcefile targetfile" );
43         }
44         catch (FileNotFoundException e) {
45             System.err.println( e ); // rely on e's toString()
46         }
47         catch (IOException e) {
48             System.err.println( e );
49         }
50         finally { // close the files
51             try {
52                 if (inStream != null) {
53                     inStream.close();
54                 }
55             }
56             catch (Exception e) {

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57         }
58         System.err.println("Unable to close input stream.");
59     }
60     try {
61         if (outStream != null) {
62             outStream.close();
63         }
64         catch (Exception e) {
65             System.err.println("Unable to close output stream.");
66         }
67     }
68 }
69 }

```