```
1: // $Id: jcat.java,v 1.2 2013-09-24 14:41:31-07 - - $
 2: //
 3: // SYNOPSIS
          jcat [filename...]
 4: //
 5: //
 6: // DESCRIPTION
 7: //
          The jcat utility functions like cat(1) and copies the contents
 8: //
          of all files to the standard output, with error messages to
 9: //
          the standard error.
10: //
11: // EXIT STATUS
12: //
          0 if no errors were detected.
13: //
          1 if errors were detected and messages printed.
14: //
15:
16: import java.io.*;
17: import java.util.Scanner;
18: import static java.lang.System.*;
19:
20: class jcat {
21:
       // Static variables keeping the general status of the program.
       public static final String JARNAME = get_jarname ();
22:
23:
       public static final int EXIT_SUCCESS = 0;
24:
       public static final int EXIT_FAILURE = 1;
25:
       public static int exit_status = EXIT_SUCCESS;
26:
27:
       // A basename is the final component of a pathname.
28:
       // If a java program is run from a jar, the classpath is the
29:
       // pathname of the jar.
30:
       static String get_jarname () {
31:
          String jarpath = getProperty ("java.class.path");
32:
          int lastslash = jarpath.lastIndexOf ('/');
          if (lastslash < 0) return jarpath;
33:
34:
          return jarpath.substring (lastslash + 1);
35:
       }
36:
```

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37:
38:
       // Copies a single opened file to stdout.
39:
       static void copylines (Scanner infile) {
40:
          // Read each line from the opened file, one after the other.
41:
          // Stop the loop at end of file.
42:
          while (infile.hasNextLine ()) {
43:
             String line = infile.nextLine ();
44:
             out.printf ("%s%n", line);
45:
          }
46:
       }
47:
48:
       // Open input file and copy contents to stdout.
49:
       static void catfile (String filename) {
50:
          if (filename.equals ("-")) {
             copylines (new Scanner (System.in));
51:
52:
          }else {
53:
             try {
54:
                 Scanner infile = new Scanner (new File (filename));
55:
                 copylines (infile);
56:
                 infile.close ();
57:
             }catch (IOException error) {
58:
                exit_status = EXIT_FAILURE;
59:
                 err.printf ("%s: %s%n", JARNAME, error.getMessage ());
60:
             }
61:
          }
62:
       }
63:
64:
       // Main function scans arguments and opens/closes files.
65:
       public static void main (String[] args) {
66:
          if (args.length == 0) {
67:
             // No files specified on the command line.
68:
             catfile ("-");
69:
          }else {
70:
             // Iterate over each filename given on the command line.
71:
             for (int argi = 0; argi < args.length; ++argi) {</pre>
72:
                 catfile (args[argi]);
73:
             }
74:
          }
75:
          exit (exit_status);
76:
       }
77:
78: }
79:
80: //TEST// mkpspdf jcat.ps jcat.java
81:
```