

```

1 // fo1/4/textfiles/Directory.java
2 //
3 //
4 // Copyright 2003 Ehan Bolker and Bill Campbell
5
6 // This draft contains just stubs for the methods.
7 // You can invoke them all, but none will do anything.
8
9 /**
10  * Directory of TextFiles.
11  */
12  * @version 4
13  */
14
15 public class Directory
16 {
17     /**
18      * Construct a Directory.
19      */
20
21     public Directory( )
22     {
23
24
25         /**
26          * The size of a directory is the number of TextFiles it contains.
27          */
28         * @return the number of TextFiles.
29         */
30
31         public int getSize( )
32         {
33             return 0;
34         }
35
36         /**
37          * Add a TextFile to this Directory. Overwrite if a TextFile
38          * of that name already exists.
39          */
40         * @param name the name under which this TextFile is added.
41         * @param afile the TextFile to add.
42         */
43
44         public void addTextFile( String name, TextFile afile )
45         {
46
47
48             /**
49              * Get a TextFile in this Directory, by name .
50              */
51             * @param filename the name of the TextFile to find.
52             * @return the TextFile found, null if none.
53             */
54
55             public TextFile retrieveTextFile( String filename )
56

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57         return null;
58     }
59
60     /**
61      * Get the contents of this Directory as an array of
62      * the file names, each of which is a String.
63      */
64     * @return the array of names.
65     */
66
67     public String[] getFilenames( )
68     {
69         // pseudocode for an implementation:
70         // declare an array of String
71         // create that array with as many spaces as there
72         // are TextFile's in this Directory
73         // loop through the keys of the TreeMap of TextFiles,
74         // adding each String key to the array
75         // return the array
76
77         // the next line is there because we have to return
78         // something_ in order to satisfy the compiler
79         return new String[0];
80     }
81
82     /**
83      * main, for unit testing.
84      */
85     * The command
86     * <pre>
87     * java Directory
88     * </pre>
89     * should produce output
90     * <pre>
91     * bill      17      Sun Jan 06 19:40:13 EST 2003      diary
92     * eb        12      Sun Jan 06 19:40:13 EST 2003      greeting
93     * </pre>
94     * (with current dates, of course).
95     */
96
97     public static void main( String[] args )
98     {
99         Directory dir = new Directory();
100        dir.addTextFile("greeting", new TextFile("eb", "Hello, world"));
101        dir.addTextFile("diary", new TextFile("bill", "Writing Directory"));
102        // now list TextFiles in dir to get output specified
103    }
104 }

```