

```

1 // joi/6/jfiles/Directory.java
2 /**
3 // Copyright 2003 Ethan Bolker and Bill Campbell
4 import java.util.*;
5 /**
6 * A Directory is a JFile that maintains a
7 * table of the JFiles it contains
8 * @version 6
9 * Directory of JFiles.
10 */
11 * @param name the name under which this JFile is added.
12 * @param af file the JFile to add.
13 */
14 */
15 */
16 public class Directory extends JFile
17 {
18     private TreeMap jfiles; // table for JFiles in this Directory
19     /**
20      * Construct a Directory.
21      */
22      *
23      * @param name    the name for this Directory (in its parent Directo
24      * @param creator the owner of this new Directory
25      * @param parent   the Directory in which this directory lives.
26      */
27      */
28      */
29      public Directory( String name, User creator, Directory parent )
30      {
31          super( name, creator, parent );
32          jfiles = new TreeMap();
33      }
34      /**
35      * The size of a directory is the number of TextFiles it contains.
36      */
37      */
38      * @return the number of TextFiles.
39      */
40      */
41      public int getSize()
42      {
43          return jfiles.size();
44      }
45      /**
46      * Suffix used for printing Directory names;
47      * we define it as the (system dependent)
48      * name separator used in path names.
49      */
50      */
51      */
52      */
53      */
54      public String getSuffix()
55      {
56          return JFile.separator;

```

```

57 }
58 /**
59      * Add a JFile to this Directory. Overwrite if a JFile
60      * of that name already exists.
61      */
62      */
63      * @param name the name under which this JFile is added.
64      */
65      */
66      public void addJFile(String name, JFile afile)
67      {
68          jfiles.put( name, afile );
69          afile.setModDate();
70      }
71      */
72      /**
73      * Get a JFile in this Directory, by name .
74      * @param filename the name of the JFile to find.
75      */
76      */
77      */
78      */
79      */
80      public JFile retrieveJFile( String filename )
81      {
82          JFile afile = (JFile)jfiles.get( filename );
83          return afile;
84      }
85      */
86      /**
87      * Get the contents of this Directory as an array of
88      * the file names, each of which is a String.
89      */
90      */
91      */
92      */
93      */
94      */
95      */
96      */
97      */

```