

```

1 // joi/5/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 5
9 */
10 */
11 * Directory of JFiles.
12 *
13 * @param name the name under which this JFile is added.
14 * @param afile the JFile to add.
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, String 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     public int getSize()
41     {
42         return jfiles.size();
43     }
44     /**
45     */
46     /**
47     * Suffix used for printing Directory names;
48     * we define it as the (system dependent)
49     * name separator used in path names.
50     */
51     /**
52     * @return the suffix for Directory names.
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     public void addJFile(String name, JFile afile)
66     {
67         jfiles.put( name, afile );
68         afile.setModDate();
69     }
70     /**
71      */
72     /**
73      * Get a JFile in this Directory, by name .
74      */
75     /**
76      * @param filename the name of the JFile to find.
77      */
78     /**
79      */
80     public JFile retrieveJFile( String filename )
81     {
82         JFile afile = (JFile)jfiles.get( filename );
83         return afile;
84     }
85     /**
86     */
87     /**
88     * Get the contents of this Directory as an array of
89     * the file names, each of which is a String.
90     */
91     /**
92     * @return the array of names.
93     */
94     public String[] getFileNames()
95     {
96         return (String[])jfiles.keySet().toArray( new String[0] );
97     }
98 }

```

```

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     public void addJFile(String name, JFile afile)
66     {
67         jfiles.put( name, afile );
68         afile.setModDate();
69     }
70     /**
71      */
72     /**
73      * Get a JFile in this Directory, by name .
74      */
75     /**
76      * @param filename the name of the JFile to find.
77      */
78     /**
79      */
80     public JFile retrieveJFile( String filename )
81     {
82         JFile afile = (JFile)jfiles.get( filename );
83         return afile;
84     }
85     /**
86     */
87     /**
88     * Get the contents of this Directory as an array of
89     * the file names, each of which is a String.
90     */
91     /**
92     * @return the array of names.
93     */
94     public String[] getFileNames()
95     {
96         return (String[])jfiles.keySet().toArray( new String[0] );
97     }
98 }

```