```
  1    // joi/10/juno/TextFile.java
  2    //
  3    //
  4    // Copyright 2003 Ethan Bolker and Bill Campbell
  5
  6    /**
  7     *
  8     * A TextFile is a JFile that holds text.
  9     *
 10     * @version 10
 11     *
 12     */
 13
 14    public class TextFile extends JFile
 15    {
 16        private String contents;    // The text itself
 17
 18        /**
 19         * Construct a TextFile with initial contents.
 20         *
 21         * @param name the name for this TextFile (in its parent Directory).
 22         * @param creator the owner of this new TextFile
 23         * @param parent  the Directory in which this TextFile lives.
 24         * @param initialContents the initial text
 25         */
 26        public TextFile( String name, User creator, Directory parent,
 27                         String initialContents )
 28        {
 29            super( name, creator, parent ) ;
 30            setContents( initialContents ) ;
 31        }
 32
 33        /**
 34         * Construct an empty TextFile.
 35         *
 36         * @param name the name for this TextFile (in its parent Directory).
 37         * @param creator the owner of this new TextFile
 38         * @param parent  the Directory in which this TextFile lives
 39         */
 40        TextFile( String name, User creator, Directory parent )
 41        {
 42            this( name, creator, parent, "" ) ;
 43        }
 44
 45        /**
 46         * The size of a text file is the number of characters stored.
 47         *
 48         * @return the file's size.
 49         */
 50        public int getSize()
 51        {
 52            return contents.length() ;
 53        }
 54
 55        /**
 56
```

```
 57     * Suffix used for printing text file names is "".
 58     *
 59     * @return an empty suffix (for TextFiles).
 60     */
 61    public String getSuffix()
 62    {
 63        return "" ;
 64    }
 65
 66    /**
 67     * Replace the contents of the file.
 68     *
 69     * @param contents the new contents.
 70     */
 71    public void setContents( String contents )
 72    {
 73        this.contents = contents;
 74        setModDate();
 75    }
 76
 77    /**
 78     * The contents of a text file.
 79     *
 80     * @return String contents of the file.
 81     */
 82    public String getContents()
 83    {
 84        return contents;
 85    }
 86
 87    /**
 88     * Append text to the end of the file.
 89     *
 90     * @param text the text to be appended.
 91     */
 92    public void append( String text )
 93    {
 94        setContents( contents + text ) ;
 95    }
 96
 97    /**
 98     * Append a new line of text to the end of the file.
 99     *
100     * @param text the text to be appended.
101     */
102    public void appendLine( String text )
103    {
104        this.setContents(contents + '\n' + text);
105    }
106
107    /**
108
```