/**
* Directory of TextFiles.
*
* @version 4
*/

public class Directory
{
/**
* Construct a Directory.
*/

public Directory()
{
}

/**
* The size of a directory is the number of TextFiles it contains.
*
* @return the number of TextFiles.
*/

public int getSize()
{
return 0;
}

/**
* Add a TextFile to this Directory. Overwrite if a TextFile
* of that name already exists.
*
* @param name the name under which this TextFile is added.
* @param afile the TextFile to add.
*/

public void addTextFile(String name, TextFile afile)
{
}

/**
* Get a TextFile in this Directory, by name.
*
* @param filename the name of the TextFile to find.
* @return the TextFile found, null if none.
*/

public TextFile retrieveTextFile(String filename)
{
return null;
}

/**
* Get the contents of this Directory as an array of
* the file names, each of which is a String.
*
* @return the array of names.
*/

public String[] getFileNames()
{
// pseudocode for an implementation:
// declare an array of String
// create that array with as many spaces as there
//   are TextFile's in this Directory
// loop through the keys of the TreeMap of TextFiles,
// adding each String key to the array
// return the array

// the next line is there because we have to return
// _something_ in order to satisfy the compiler
return new String[0];
}

/**
* main, for unit testing.
*
* The command
* <pre>
*   java Directory
* </pre>
* should produce output
* <pre>
* bill     17      Sun Jan 06 19:40:13 EST 2003    diary
* eb       12      Sun Jan 06 19:40:13 EST 2003    greeting
* </pre>
* (with current dates, of course).
*/

public static void main(String[] args)
{
Directory dir = new Directory();
dir.addTextFile("greeting", new TextFile("eb", "Hello, world"));
dir.addTextFile("diary", new TextFile("bill", "Writing Directory"));
// now list TextFiles in dir to get output specified
}