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This draft contains just stubs for the methods. You can invoke them all, but none will do anything.

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

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 similar to the following:
   */
  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"));
    System.out.println("greeting
thats the output of the retrieval.

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