CSC207H: Exercise 2

Due date: 10:00 a.m., Monday, October 6, 2008.

What to do for this exercise

1. Check out the Exercise 2 material from your repository. All you will find there is this file, "`index.html`".
2. Write a Java program "`Ex2.java`" that obeys the specifications below. It must be in a package "`e2`".
3. Check the program into your Exercise 2 repository. As always, the thing we'll look for is a file called "`Ex2.java`" in a directory "`e2`", and that directory may be either the "`exercises/e2`" itself or some descendant of it in the tree of directories.

Specifications for `Ex2.java`

When the user gives the command

```
java e2.Ex2 someFile
```

then the program must print all the lines in the file named "`someFile`" in sorted order.

Hints

- In `main()`, the file name will be `args[0]`.
- To remember how to set the program arguments in Eclipse, look back at the lab 2 instructions. You may find it handy to change the working directory too.
- You can use a `FileReader` to get input from a file. It's the same as using an `InputStreamReader` to get input from the keyboard.
- You can use a `List` to store the input lines, and then `Collections.sort()` to sort the list. The sorting order ("collating sequence") is just the one used for ordinary string comparison, so there's not a lot of computer science here.
- The previous two hints are invitations to read the Java API documentation.
- Don't ask the user for the file name. It's a program argument.
- Don't print anything but the sorted lines. If you print a header, your mark will be 0.
- You can assume the user actually provides a file name on the command line, and you don't need to worry that we will try your program on files that don't contain valid characters.
- You can assume that every line in the input file, including the last, ends with a newline character.
- You can't assume the number of lines in the file is greater than 0.
- `BufferedReader.readLine()` returns `null` when there is no more input to be read.

Last change: $Date: 2008-09-28 16:27:16 -0400 (Sun, 28 Sep 2008) $