

LAB #9

COMPARING STRINGS

Ted Pawlicki
October 6-7, 2004

This lab should be completed during the scheduled lab sessions. In order to complete this lab you must demonstrate programs to your lab TA. The technical knowledge on how to accomplish these tasks is found in the assigned reading or the lecture notes, but the lab TA will help as well.

The BlueJ IDE will be appropriate for this assignment, but it is not required.

We know that we can compare numerical data with familiar relational operators (" $<$ ", " $>$ ", etc) to determine if an integer or a double is greater than or less than another integer or double. It turns out that we can compare strings with other strings to determine an ordering. If we declare `String x , y ;` we can compare the two strings with `x.compareTo(y)`. The `compareTo()` method of strings returns a positive integer if the first string is ordered before the second, and a negative integer if the second is ordered before the first.

1. Write a JAVA Applets that reads in four strings and paints them to the screen in lexicographic order. (How many ways can you order four items?)
2. Transfer your html and class file to your "public_html" directory on troi. For your lab document, use a screen shot of your applet running off of troi, rather than off the local disk.
3. Cut and paste your source code and screen shots of your running program into your lab document and hand it in. If you use electronic hand in, be sure to demo your running code to your TA so that the TA has a record of "checking you off" as having done this lab.

NOTE: Electronic hand in should be working at this point. Attempt to submit your lab work through the homework drop box in WebCT. However, we should view this as a test. If you encounter any problems, revert to paper based hand in.