

<Project Comparison Script Instructions>

NOTE 1: It is recommended that this you run this script only after you have a program that successfully works for possible input values and selections. In other words do not use it to help with development. Rather use it to verify that your solution does work for various types of inputs and input files. The results obtained from running this script should be used to fine-tune your working solution.

NOTE 2: If you run the comparison script using using an ssh terminal on a windows pc, you must also have Xming installed and running. If Xming is not installed and running, then when you run the comparison script, you will see an error message regarding the display.

This script will take your solution to a project, compile and run it under various test conditions (valid inputs, invalid inputs, valid input files, invalid input files, etc). It will then run the sample solution under the same test conditions. Finally a side-by-side difference is performed on the output of your program versus the output of the sample solution. All comparison information is stored in a file named **YourProject_##Code.cpp_out** where **YourProject_##Code.cpp** is the name of your source code file for the project number specified by ## – i.e Project_05.cpp.

Run the comparison script by typing the following at a command prompt in a terminal window that has a current working directory of **~/CPE112_TermYear/Project_##** (where ~ represents your home directory, Term is SPR, SUM or FALL, Year is last 2 digits of the year (i.e. 10) and ## represents the project number you are working on)

/home/work/cpe112data/Project_##/CompareSolution.bash YourProject_##Code.cpp

Where **YourProject_##Code.cpp** represents the name of your project ## source code file (i.e. Project_05.cpp).

When the comparison script is run:

- A new terminal window opens.
- This terminal window is maximized to fit the screen.
- After the script runs, you will be asked if you want to view the difference file.
 - Answering yes will
 - Display the output file
 - The terminal window remains open.
 - **To close the window, type exit at the command prompt.**
 - Answering no will result in the window closing.
 - If you later want to view the output file,
 - Set the font size to 9.5 for a terminal window,
 - Maximize the terminal window and
 - Type the following command at the terminal prompt:
more YourProject_##Code.cpp_out
- **Understanding the side-by-side difference indicators (the last 2 are on Blackhawk only):**
 - A | indicates the lines are similar, but there are some differences (i.e. 47 versus 48)
 - A < indicates a line present in the file to the left that is not present in the file on the right
 - A > indicates a line present in the file to the right that is not present in the file on the left
 - A \ indicates that the line to the left is missing a new line character
 - A / indicates that the line to the right is missing a new line character

See your TA or instructor for help if necessary