

CSCI 208-Introduction to Programming II

Lab 1

Important Notes

1. All client program files must be type .cpp. Information on compiling and running your code is on the website.
2. Complete your lab in the csci208/labs/lab1 folder.
3. Use your book, notes, and other supplementary material (web, prior notes, etc.)

This lab is a refresher of 207 concepts you will use repeatedly in this course, including file I/O.

1. Create a text file named *months* that contains the following months and average temperatures (as written, including a space between month and temperature):
January 55
February 52
March 55
April 65
May 69
June 74
2. Create a program that opens this file and reads the information from the file and stores the months and corresponding average temperature into an array(s). You will need to determine how to do this for your program.
3. Output the array into a separate file, named *output*. The output file should be displayed as follows:
January: 55
February: 52
...
4. The program should then go back to the beginning of the input file *months* and read the information again. This time, instead of storing in an array, the information should be directly output to the file *output*. Note the following two important things:
 - a. The output file should now have the same information in step #3 stored twice.
 - b. There are two specific functions that you should look to use for processing through files repeatedly. These both belong to the `fstream` class (`clear()` and `seekg()`). You will need to determine how to appropriately use these.