CS 100 Lab Zero - Spring 2019

Create a directory called labo on your machine using mkdir labo and move into Warnin

Warning: for each programming assignment (a lab, a project or an exam), requested. For example, for this lab, the directory name should be exactly (all the letters in a directory or file name shall be in lowercase and a name shall contain no spaces).

Complete the following programs. For each program, prompt the user for the inputs needed by the program.

1. Name this program avg. c – Write a program that reads in four integers and prints the average (a real number) of these four integers. You can prompt the user four times (e.g. "Enter an interger") or prompt the user once in "The average is 123.4".

Make sure your program works for input sets such as 1234 (average is 2.500000) and -99 111 10 22 (average is 11.000000).

2. Name this program **count**. **c** – On New Year's Eve, most of us want to count down to New Year. You are asked to write a program to do just that. The program reads in the current time (three integers representing hour, minute and second). The program will compute and print out how many hours, minutes and seconds until New Year. The 24-hour military time will be used for input. You can assume that all input to this program will be valid. The following are three sample executions of the program.

Enter the current time: 11 50 30

It is 12 hours 9 minutes 30 seconds until New Year.

Enter the current time: 17 0 0

It is 7 hours 0 minutes 0 seconds until New Year.

Enter the current time: 23 59 50

It is 0 hours 0 minutes 10 seconds until New Year.

Submit your lab

First, on your local machine, compress your lab0 directory into a single (compressed) file, i.e. lab0.zip. To do this:

- PC: Using Windows Explorer, right click on the lab0 directory and select "Send To" and then select "Compressed (zipped) folder."
- Mac: Using Finder, use a secondary click on the labo directory and then select "Compress labo."

Please make sure lab0.zip contains the lab0 directory as well as avg.c and count.c under it.

Second, once you have a compressed file named lab0.zip, submit that file to Blackboard.