Name:

Submit your quiz by depositing your work in the directory:

/data/courses/ece\_1111/current/quizzes/qu\_03/lastname\_firstname/

Put problem 1 in subdirectory p01 and problem 2 in subdirectory p02.

1. (50 pts) Write a C program, called p01.cc, to add two floating-point numbers and print the result. Using the float data type, set one variable, called x, to a value of 27.2727272727272727. Add 3.3333333 to this variable.

Set a second float variable, called y, to a value of -0.2727272727272727. Subtract 3.3333333 from it.

Print the sum of the two to stdout. Comment on your result. What should the result be? Put your result and explanation in a comment block at the top of your program. You must use our standard makefile template.

1. (50 pts) Debug the code found in:

/data/courses/ece\_1111/current/quizzes/qu\_03/picone\_joseph/

Copy it to your directory and modify the code so that it works.

This code should produce the value of const (99.0). However, due to a programming error, it produces unpredictable results.

You must debug the line that does the computation. You cannot change the data types used to declare the variables, nor can you simply do “sum = const;” or change the order of operations. You must figure out what is wrong with the computation and fix it by thinking carefully about the data types involved.