Name:

For this quiz, copy the examples I have been using in class (Makefile, example.h, and example.cc). Place your solution in example.cc. Make sure it compiles with make and executes the example below correctly.

1. Write a C program that reads an integer from the command line and assigns it to an integer variable N. The main program reads the command line value and calls a function named my\_sum N times. The function my\_sum is declared this way:

*Long my\_sum(long i);*

and it should return the value of the sum of the integers from 0 to i. For example, if i = 3, my\_sum returns 6.

Your main program should use a for loop to call my\_sum for each iteration of your main program loop, and it should use a format of “the sum from [0,%d] = %d\n”.

For example:

*p01.exe 3*

should produce:

*the sum from [0,0] = 0*

*the sum from [0,1] = 1*

*the sum from [0,2] = 3*

*the sum from [0,3] = 6*

*…*

Note that you must do the computation in a function call. You must use our standard makefile to compile and link your program. You must declare the function in a header file.

Your main program should be in a file named *p01.cc*. Your function should be in a file named *p01\_00.cc*. Your header file should be *p01.h*.

Submit your code in the usual place on the class server – *qu\_04/lastname\_firstname/p01/*.