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 converts the command line arguments to a binary coded decimal. Assume we always specify 4 bits on the command line, and assume we are dealing with an unsigned integer. The following examples should work:

**nedc\_999\_[1]: example.exe 1 1 1 1**

**BCD value = 15**

**nedc\_999\_[1]: example.exe 0 0 0 0**

**BCD value = 0**

**nedc\_999\_[1]: example.exe 0 1 1 1**

**BCD value = 7**

**nedc\_999\_[1]: example.exe 0 1 0 1**

**BCD value = 5**

Your output must be exactly as shown above. You must assign the value of the command line arguments to a variable named “value” declared as an unsigned int (“unsigned int value =”).

Also create an Excel spreadsheet that does the same calculation. Show that your results in C and Excel match exactly. Call the Excel spreadsheet “example.xlsx”. Place this file in the same directory as your source code.

Note that your code must be well-commented and well-formatted. You will be graded on the accuracy and aesthetics (formatting and commenting) of your code.

Submit your quiz by depositing your work in the directory:

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