IC210 – Project #1 EI Problems

Keep this worksheet! You instructor will ask you to bring a “best effort” solution to one of these problems (the most relevant problem) to any EI for the project.

NOTE: You are permitted to discuss solutions to these practice problems, with anyone as much as you like (classmates, MGSP leaders, your instructor, or others). However, this does not change the policy regarding the actual project – you should not discuss the project itself with anyone besides your instructor, nor provide any other assistance to anyone. If you have any questions about the project itself, ask your instructor.

Problem A: (relates to project step 1 and 2) Write a program that
   a. Asks the user for an integer (called this “count”)
   b. Reads in a list of words, until it sees the word DONE. After reading each word, print that word out “count” times (and then a newline).

For instance, the input might be:
   3 John Fred Grace DONE

And your output could be (each word is printed 3 times):
   John John John
   Fred Fred Fred
   Grace Grace Grace
   Bye!
Problem B: (relates to project step 3) Write a program that reads in a list of names (first name and last name), until it sees the word STOP. After reading each name, print out a greeting for that name. For instance, the input might be:

   John Smith
   Fred Davis
   Grace Hopper
   STOP

And your output could be:

   Hello John Smith!
   Hello Fred Davis!
   Hello Grace Hopper!
   Bye!

Very important: Once you see “STOP”, your program should print a farewell message and then quit. You may NOT assume that the user types anything else after “STOP.” You may NOT use “exit” or “break”, and you may only use “return” at the very end of your program.

HINT: Make sure you fully understand all the techniques needed for Lab 3.

function make2DArray() that could be used in the following way from main():

   int numRows = 10;
   int numCols = 5;
   myArray = makeAndFill2DArray(numRows, numCols);
   cout << "Value in row 3, column

Problem C: (relates to project step 4) Solve Problem A, but where you read from a file instead of from “cin”.