### Northeastern University

**ETC 1103 – C++ Application developoment**

T**est 1 50 points**

*Each problem is worth 25 points*

1. Write a program that reads two files, file1.txt and file2.txt, and merges these two files to a third file named output.txt. The file file1.txt contains even numbers between 0 and 10. The second file file2.txt contains odd numbers between 0 and 10. After you merge the files, the output file contains all numbers from 0 to 10 in order.

Your program reads numbers from the two files alternately and after each read, writes the number read to the output file. Show the contents of all three files.

1. Write a program that reads a person’s name in the following format:

First name, then middle name or initial, and then last name.

The program then outputs the name in the following format:

Last Name First\_Name Middle\_Initial.

For example, the input

Mary Average User

should produce the output

User, Mary A.

The input

Mary A. User

should produce the output

User, Mary A.

The program should work the same and place a period after the middle initial even if the output did not contain the period. Your program should allow for users who give no middle name or middle initial. In that case, the output, of course, contains no middle name or initial. For example, the input

Mary User

should produce the output

User, Mary

[**Hint:** *You may want to use three string variables rather than one large string variable for the input. You may find easier to not use getline.*]