C++ Programming Assignment (#09)

Date: May 19, 2016

Instructor: Yoo, Younghwan

Due date: May 25, 2016

Programming Projects

1. Write a program to generate personalized junk mail. The program takes input from two input files. One (junkMail.txt) is the junk mail which contains the text of a letter, except that the name of the recipient is indicated by the three characters #N# or #F#. The other file (reclist.txt) contains the name of a recip-



<u>ient</u>. For each recipient in the file, your program generates a junk mail file by replacing the three letters #N# with the first name and #F# with the full name. Note that the number of recipients in the file may be greater than one.

Example of the first input file: junk mail

Dear #F#,

Am in a hurry writing you this note, I just wanted to seek your help on something very important, you are the only person I could reach at this point, and I hope you come to my aid. Because something very terrible is happening to me now, I need a favor from you now; I had a trip here in the UK on a mission.

Unfortunately for me all my money got stolen on my way to the hotel where I lodged along with my bag where my passport was, and since then I have been without any money I am even owing the hotel here. So please I need you to lend me about 1650 Pounds so I can make arrangements and return back. I have spoken to the embassy here but they are not responding to the matter effectively, I will return the money back to you as soon as I get home, I am so confused right now.

#N#, I will be waiting to hear from you.

Regards

Jun

Example of the second input file: recipient list

Younghwan Yoo

Jiwon Lee

Example of the output file:

Dear Younghwan Yoo,

Am in a hurry writing you this note, I just wanted to seek your help on something very important, you are the only person I could reach at this point, and I hope you come to my aid. Because something very terrible is happening to me now, I need a favor from you now; I had a trip here in the UK on a mission.

Unfortunately for me all my money got stolen on my way to the hotel where I lodged along with my bag where my passport was, and since then I have been without any money I am even owing the hotel here. So please I need you to lend me about 1650 Pounds so I can make arrangements and return back. I have spoken to the embassy here but they are not responding to the matter effectively, I will return the money back to you as soon as I get home, I am so confused right now.

Younghwan, I will be waiting to hear from you.

Regards

Jun

Option) In order to update file contents,

- 1) open the input file and a new file for data output separately,
- 2) read the input file contents and write them into the output file as they are if it does not have to be updated,
- 3) change the parts you want to update and write them into the output file,
- 4) close both the input and the output files,
- 5) delete the input file by using int remove (const char * filename);
- 6) rename the output file with the same name as the original input file by using int rename (const char * oldname, const char * newname);
- * Note that the original input file is removed from your computer in the case of the update.

- 2. Write a grading program for a class with the following grading policies:
 - a. The input file has six columns for every student: ID, name, and four scores.
 - b. The first and the second scores are for the midterm exam and the final exam. each graded on the basis of 100 points.
 - c. The next two scores are for quizzes, each graded on the basis of 10 points.



d. The final exam counts for 40% of the grade, the midterm counts for 30%, and the two quizzes together count for a total of 30%. (Do not forget to normalize the each score.)

	A+	Α	B+	В	С	D	F
# of students	1	2	2	2	1	1	1

The above table shows the number of students who can receive each grade: The student who has the highest score is given A+, the next two students are given A, and so on. The output file has two more columns: the overall average numeric score and final letter grade. Define a class for the student record.

Sample input and output files:

