CIS 1.5 Fall 2008 Lab 2, Part 2

Instructions

• This is the second part of the second homework/lab assignment for CIS 1.5. Read the first part of the assignment for complete instructions, due date and submission details.

1 Before you start

- Get the "make records" example from Professor Parsons (or if you are at home, download it from the class web page. It is one of the examples for Unit II).
- Make sure you can run the program. (0 points)

2 Creating and printing records

- Write a program that combines the functionality of the two example programs we looked at in class.
- First it should prompt the user to enter patient data, write this data to a file, and then close the file.
- Then it should print out all the data in the file.
 (1 point)
- Save your working program as hw2-4.cpp.

3 Allowing the user to choose what to do

• Modify the program so that the first thing that it does is to ask the user.

```
Enter 1 to create a new file of patient records \mbox{\it Enter} 2 to print out patient records
```

If the user enters 1, the program asks for patient data and writes it to a file. If the user enters 2, the program just prints out all the data in the file.

(2 points)

• Save your working program as hw2-5.cpp.

4 Adding new options

- Modify the program to add two new options for the user.
- If the user enters 3, the program asks for a patient ID and displays the information for that patient. (1 point)
- If the user enters 4, the program asks for patient data and adds it to the end of the existing file of patient data

Hint: You can write data to the end of a file if you open it using, for example:

```
ofstream outfile(''patient.dat'', ios::app
(1 point)
```

• Save your working program as hw2-6.cpp.

5 Extra credit question

• Re-structure your program so that it has the following four methods: printFile() which is called when the user enters 1, createFIle, which is called when the user enters 2, locateRecord, which is called when the user enters 3, and addRecord, which is called when the user enters 4.

(1 point)

• Save your working program as hw2-7.cpp.