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Data Structures 2015 Fall Homework 1 Report

Firstly, I used the Lab2 codes for main program. It was simple and useful. Of course there was huge differences between the code that the homework wanted and the code that was written in the Lab2 sheets. I picked the main idea of the Lab2 codes wherever I need and converted them in a form that will help me to write the program. Because that we were working on the same idea for 2 weeks, it was not so hard to write the program. There were some bugs but I think I’ve overcome them.

I used “struct” for creating a list fort he books’ informations (it was written in the homework file). It gave me an advantage of reaching all information at the same time when I needed and lessen the variable number that I needed to define. For example I had to define 30 variables for 5 books if I couldn’t use struct. Also I used “arrays” and “pointers” for storing, updating and using those information whenever I need them like listing. Arrays were the easiest way to store a string and I had to use pointers to reach them when I was going to add or update a book. Also arrays are the best for accesing each element easily with or without for loops and stored in the memory continuously so that strings don’t split .

In the code, “recordapps.cpp” has all of the functions that I need to use to perform commands. But in the main code, “BookRecord.cpp”, I call these functions and complete them with the missing substitutions. I call these functions with “switch-case” statement in the operate function with user’s input from the menu.

The screenshot of the program’s console is given below:

