

P2: Library (Linked List Implementation)

Objectives

- Be familiar with object-oriented programming concepts.
- Be able to implement unsorted lists using linked list.

Instructions

In this programming assignment, you are about to implement the library you did in the previous programming assignment using linked list method. All the requirements are the same as those in the previous one. Before working this programming assignment, study the programs presented in the textbook. The source code can be found in a folder named “Linked” (The full path: \\copernicus\public\csc2320\SourceCode\Chapter3\Linked) in our shared drive. The class declarations for Book and Library are outlined below. All header files and client.cpp are provided in the programming assignment shared folder. You are required to use them with no modification except for debugging purpose. Submission requirements are also the same as for P1.

```
//Book node
class Book
{
public:
    //public member functions here
private:
    int isbn;
    Book * next;    //Pointer to next adjacent Book object
};

//Linked list declaration for class Library
class Library
{
public:
    //public member functions here

private:
    Book * first; //Pointer to the first book in the library
    int numOfBooks; //The number of books in the library
};
```

