

CSCI 2170

Closed lab on List Class (array implementation)

1. Copy these files into your CLA directory:
 - List.h, List.cpp, client.cpp, type.h, books.cpp, library.datUse this command:

```
cp ~cen/data/filename .
```

 ← trailing period
2. Compile the program with:

```
aCC List.cpp books.cpp
```
3. Run the program and search for two books:
 - a book title in the list, and
 - a book title not in the list
4. Add a user-defined function “PrintInReverse” in the client file “books.cpp” that prints the list of books in the reverse order as they are inserted in the list.
 - Compile and run the program
 - Compile with:

```
aCC List.cpp books.cpp
```
 - Create a script file to turn in:
 - script listlab-B
 - cat books.cpp
 - a.out
 - exit
5. Add a new method “Print” in List class. When called, this method will display the list of books. You need to edit both the file “List.h” and “List.cpp” to add this new method.
 - Compile the modified List class using :

```
aCC -c List.cpp
```

After successfully compile the modified List class, add a test statement in the original version of the client program “books.cpp” to print the list. For this, you need to replace the following lines

```
// display all the books in the collection
length = collection.getLength();
for (int j=0; j<length; j++)
{
    collection.retrieve(j+1, oneBook, success);
    if (success)
        DisplayOneBook(oneBook);
}
```

with the new test statement.
 - Compile and run the program
 - Create a script file to turn in:
 - script listlab-V
 - cat books.cpp
 - a.out
 - exit