**CS120: Lab 7 – Singly Linked List Implementation of the List ADT, part 1**

**(Lab 5 in manual)**

*Work independently. If you need help, ask the instructor.*

# Pre-Lab

1. Carefully read p. 58-64 in your lab manual.
2. Get the source code from the class website.
3. **Document the data members of the ListNode and List classes. Remember to include the class invariant.**
4. Implement the ListNode and List classes, placing your implementation in the List.h header file
5. Follow the online test worksheet steps, using test5.cpp.

# Lab

1. Finish implementing and testing the List methods. Get all test cases to pass.
2. Upload to moodle, a zipped file named CS120Lab7YourName containing your **source code only**, to the instructor. Provide a hard copy of the test plan worksheet to the TA.

# Post-Lab

1. Get the file slideshow.cpp from the lab web page.
2. Do Programming Exercise 1, using slideshow.cpp as a basis.

Notes:

* Ignore the part of Step 1 that says your program should clear the screen.
* Read through the file to see what classes and functions are defined before you start modifying it.
* Before you run the program, place the input file, slides.dat, in the build/Debug folder in your Xcode project folder.

1. Email your source code to the instructor. Turn in the test plan worksheet.

# Grade Sheet

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| --- | --- | --- | --- |
|  |  | Out of... | You earned... |
| List and ListNode | Correctness of output | 40 |  |
| Documentation | 8 |  |
| Readability | 8 |  |
| User-friendliness | 8 |  |
| Programming Exercise 1 | Correctness of output | 12 |  |
| TOTAL |  | 76 |  |