A1

Due: See dropbox details

Submit: .zip

[™] Details

For this assignment you will be developing a C++ program which implements a linked list. Your program will read in a text file called "cmd.txt" that will instruct your program what operations to run. Your program should implement a C++ class which will be used to represent your linked list. I have provided the following files for you:

- 11.h Defines the interface your class should implement
- main.cpp This is a minimum file which contains the driving logic for your program
- makefile This is the makefile which can be used to build your program
- 11.cpp This is the implementation file for your linked list. This file is currently empty
- · cmd.txt This is the file that your program will read input from and determines what your program will do
- output.txt Contains the expected output for a correctly implemented program which runs the provided cmd.txt

Your Task

You are to look at the class defined in 11.h and create the corresponding implementation in 11.cpp. You may not change any of the existing declarations but you may add more functions as you deem necessarry.

cmd File Format

The cmd file for this assignment consists of two columns of numbers. The first column indications the function that should be called, and the second column indications the operand that that function may take. If the function takes no operand then the entry will be blank. The first column number to function mapping is as follows

- 1 prepend
- 2 append
- 3 removeFront
- 4 removeBack
- 5 search
- 6 printlist

How I will test your program

To test your program I will use your ll.h and ll.cpp files and combine them with my own main.cpp file. My version of main.cpp will be similiar to the one that is provided with a few extra grading features and test cases added in.

Deliverables

Add ll.h, ll.cpp, main.cpp, makefile, and cmd.txt to a zip file called a1.zip and submit that file to the dropbox. I will only accept submissions that meet these requirements.

Expections

- No use of any prebuilt linked list libraries
- Your code should be well formatted, points may be taken for sloppy code
- Your output should match the output provided in output.txt
- You must submit a zip file called a1.zip
- Your code should be fairly robust and be able to handle obvious edge cases such as if I remove every element from the list and begin to add new elements. You are responsible for comming up with and testing for possible edge cases.