

I put all the testing explanations this time as cout statements in the program itself. Please kindly check the screenshots to read the explanations.

```
Microsoft Visual Studio Debug Console
the list after adding 5 nodes to the front of the list (add to the front)
5 4 3 2 1
-----
list after adding number (69) at the end of the list (add to the back)
5 4 3 2 1 69
-----
list after adding number (13) before the number (3) in the list
5 4 13 3 2 1 69
-----
list after deleting nodes with data (4) and (69)
5 13 3 2 1
-----
sum is 24
-----
printing the list after taking the vector and transforming it to a list
each vector element repeated also is reflected in its repeating in the list
70 2 2 1 1 2 2 1 1
-----
-----
-----
This is the testing of the insertAfter function
Please enter the number of elements
3
enter the element number 1
1
enter the element number 2
2
enter the element number 3
3
the vector before applying the function
1 2 3
What is the number you want to look for?
3
What is the number you want to put after the number you chose?
50
the vector after applying the function
1 2 3 50
A:\Development\C++ - CS 2\midterm\x64\Debug\midterm.exe (process 14412) exited with code 0.
```

As you see, I tested all the functions of the LinkedList class in one run. All the adding variations and deleting too. Also, the final part tests the vector insertAfter function as mentioned in the program. This runtime I tested adding a number after a number found at the end of the vector.

At this run, I tested adding a number with the insertAfter function in the middle of the vector and it works too.

```
Microsoft Visual Studio Debug Console

-----
list after adding number (13) before the number (3) in the list
5 4 13 3 2 1 69
-----
List after deleting nodes with data (4) and (69)
5 13 3 2 1
-----

sum is 24
-----
printing the list after taking the vector and transforming it to a list
each vector element repeated also is reflected in its repeating in the list
70 2 2 1 1 2 2 1 1
-----
-----
-----
-----
This is the testing of the insertAfter function
Please enter the number of elements
5
enter the element number 1
1
enter the element number 2
2
enter the element number 3
3
enter the element number 4
4
enter the element number 5
5
the vector before applying the function
1 2 3 4 5
What is the number you want to look for?
2
What is the number you want to put after the number you chose?
111
the vector after applying the function
1 2 111 3 4 5

A:\Development\C++ - CS 2\midterm\x64\Debug\midterm.exe (process 15596) exited with code 0.
```

I used this video to learn about linkedlists for the midterm and the assignment. The video was only used for understanding purposes.

<https://youtu.be/80pnhhHGpWc>