Lab 03 – Lists, Stacks, and Queues

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## Functionality:

The only portion of the program modified was main(). I utilized the erase() and push\_front() functions of the List class to reach the assigned functionality for the segment of the program that needed to deal with them (Creating a list of numbers 1-N, and then emplacing i\*100 after every number i in the list), and the Stack and Queue structures were interacted with using push()/pop() and enqueue()/dequeue() respectively.

## Validation:

Considering that the output for both N=5, and N=23 is as expected I can be reasonably certain that the program works as intended, although since the wording of the lab said to *extract* elements from L1 to make Q1 as opposed to *inserting* from L2, therefore L1 is empty at the end of this program, but is displayed after both lists are created but before Q1 is.

## Program Output (N = 5):

Text

Description automatically generated

## (N = 23):

A screenshot of a computer

Description automatically generated