

# CS150 Lab 8 Notes

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## Introduction

LinkedList utilized to create a Queue and Stack. Queue and Stack both have interfaces. Queue interface methods include add, remove, and peek. Stack interface methods included isEmpty, peek, pop, push, and search. Queue interface methods defined in MyQueue. Stack interface methods defined in MyStack. Peek returns the top element of either. For Stack, pop removes the top element. Push adds an item to the stack. Search finds the inputted object within the stack and returns the index value. For queue, add inserts element into queue. Remove removes the top element of the queue.

## Unit Test

Each method was tested for accuracy. The Stack and Queue methods return the top element. AssertEquals was utilized to confirm the element matched up to what the desired element.

The ExperimentController was set to run each of the extended time methods for ten thousand, twenty thousand, and one hundred thousand items. Regardless of the number of items, the timing did not change. There was no significant comparison between Queue or Stack methods worth recording.

## Required Output

No required output

## Trouble Report

Everything works!

## References

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