

CSE 2231 - Software II: Software Development and Design

Lecturer: **Professor Rob LaTour**

Lab Hints

Spring 2025

1 January 14, 2025

The lab for today is just a way to revisit some of the concepts from JUnit Testing from Software I. Please don't look at the solutions just because you want. We want you to learn these concepts rather than just doing this lab and calling it a day!

Hints for today:

- Think about how your data structure is storing the data. For example, an empty stack is an edge case, and the same with full elements.
- `constructorTest()`: You will create a new instance of the stack being tested.
- You need to identify the possible cases, for all the cases.
-

2 January 21, 2025

Today we are doing Lab 5, called `Sequence on Stack`. The way you would approach this will be like following:

- Here you have two stacks, and you will use them to create a sequence. So for example Stack is FIFO (First In First Out), and you will use the two stacks to create a data structure called `Sequence` where you can add and remove elements from both ends.
- For `setLengthOfLeftStack` if the length of the `leftStack` is less than the desired length, you will need to pop elements from the `rightStack` and push them onto the `leftStack`. If the length of the `leftStack` is greater than the desired length, you will need to pop elements from the `leftStack` and push them onto the `rightStack`.
- For add and remove method, you will use the `setLengthOfLeftStack` method to adjust the length of the left stack add and remove elements accordingly. Here we are using the space between the left and the right stack to indicate our position in the sequence.
- No hints for the `length` method. I hope you all can figure this one out.

Fact 1

If you are using the method 'flip' you are doing something wrong!

Good luck with labs! Let us know if you have any questions!

3 January 23, 2025

I will not be here on this lab but I will update the lab hints for you all.