COMP 203 Data Structures and Algorithms, Fall 2022
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Lab 8

Submit your code and any other answers to Canvas. The lab is open book.

1. Implement a class named LinkedStackTest. Implement a method with signature transfer(S, T) inside LinkedStackTest that transfers all elements from stack S onto stack T, so that the element that starts at the top of S is the first to be inserted onto T, and the element at the bottom of S ends up at the top of T. Implement a main method inside LinkedStackTest to test your transfer method. You can use LinkedStack objects with Integer as the data type for generics.

2. Implement the clone() method for the ArrayStack class. Your clone() method should be inside ArrayStack class. You can first call super.clone. Then you can clone the data array of the class using a command like

```
other.data = data.clone();
```

after instantiating an ArrayStack object called other. Finally you can return other (i.e. 3 lines of code inside the clone method is sufficient). You can study the clone() method in SinglyLinkedList class.

Files to submit

Question 1

LinkedStackTest.java

Question 2

ArrayStack.java