Programming Fundamentals

Lab #7

Topics

- Abstract Data Types
- Stacks
- Linked lists

Concepts

Stack implementations Linked node, linked list List traversal

Before beginning, download AdditionalExamples from BlackBoard and add to a new project in Eclipse.

Exercise 1

Create a new Driver class with a main method. In this method, do the following:

- 1. Create an instance of an ArrayStack and a LinkedStack class.
- 2. Push the following int's onto the two stacks: (1,7,3,4,9,2)
- 3. Pop off all the elements from the stacks, displaying each int as it's removed

Exercise 2

Modify the LinkedStack class to include a new method called removeBottomHalf, which removes the half of elements sitting at the bottom of the stack.

Test the method using the Driver program.

What is the time complexity of this method?