Problem 3: Playing with Stacks

Data Structures Lab (CS111)

This question has two parts:

- 1. Implement stack using linked list and implement following operations on the implemented stack:
 - buildStack(), push(), pop(), top(), isEmpty() [5 marks]
- 2. Consider the array implementation of a stack. You have to implement stack using only one array such that you can always find the minimum element of the stack in O(1) time. You have to design following stack operations:
 - push(), pop(), top(), isEmpty(), isFull()
 - findMin() in O(1) time

[15 marks]