Lab 06 Stack

You **MUST NOT** modify any existing codes in all given templates unless the instruction allows you to do so.

You are given an interface Stack.

- 1. (6 marks) Class ArrayListStack is supposed to be an implementation of a stack using Java's ArrayList. Complete class ArrayListStack from a given template:
 - Implement a default constructor and all methods from interface Stack.
 - Additional methods may be required in order to run tests.
 - Use Class ArrayListStackTest for testing your ArrayListStack.
- 2. (6 marks) Class UseStack is given. Write code for method sort(Stack s). This method receives a stack as its parameter, then **sort** the stack so that the smallest value is on top and the largest value is on the bottom:
 - You are allowed to use additional stacks to help, but you are not allowed to create other data structures such as arrays or lists.
 - You are allowed to create primitive variables.
 - Operations on stacks must only be operations defined in interface Stack.
 - Use class UseStackTest to test your code.