### **Question 1 [15 Points]**

You are given a stack of integers. Write a function named ***conditional\_reverse*** that takes a stack *st* and an integer *n* as input parameters. The function modifies and returns the input stack where the input stack is reversed from the bottom to *n-th* element.

Assume the Stack class is already given and provides standard methods: push, pop, peek, and isEmpty.

**Constraints:**

You are only allowed to use instances of the provided Stack class, which supports the provided methods. No other data structures can be used other than Stack.

[Hint: You can create multiple instances of the Stack class]

| **Sample Input** | **Sample Output** | **Explanation** |
| --- | --- | --- |
| Stack: 10 20 30 40 50 60  n = 4 | Stack: 40 30 20 10 50 60 | The bottom element of the input stack is 10. Reversing 4 elements from the bottom results in Stack: 40 30 20 10 50 60 |