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

You are given a stack of integers. Write a function named **retain\_and\_reverse\_stack()** that takes a stack st and an integer m as input parameters. The function modifies and returns the input stack such that:

1. Only the top m elements are retained in the stack (discard the rest).
2. The retained elements are reversed in the stack.

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 and its methods.
* No other data structures can be used apart from additional Stack instances.

| **Sample Input** | **Sample Output** | **Explanation** |
| --- | --- | --- |
| Stack: 10 20 30 40 50 60  n = 4 | Stack: 40 30 20 10 | Retain the top 4 elements (10, 20, 30, 40) and discard the rest (50, 60). Reverse the retained elements to get 40, 30, 20, 10. |