1. <https://leetcode.com/problems/implement-stack-using-queues/>
2. <https://leetcode.com/problems/implement-queue-using-stacks/>

**Module - 14 Practice Problem**

**Problem-1:**

Write a program that reads integers into **Queue1** and **Queue2**, merges them into **MergedQueue**, and then prints the elements of **MergedQueue**.

**Input:**

* The first line contains an integer n, representing the number of integers in Queue1.
* The next line contains n integers, separated by spaces, representing the elements of Queue1.
* The following line contains an integer m, representing the number of integers in Queue2.
* The next line contains m integers, separated by spaces, representing the elements of Queue2.

**Output:**

* Print a single line containing the integers of MergedQueue, separated by spaces.

|  |  |
| --- | --- |
| **Input** | **Output** |
| 5  1 2 3 4 5  5  6 7 8 9 10 | 1 2 3 4 5 6 7 8 9 10 |
| 2  1 2  3  3 4 5 | 1 2 3 4 5 |
| 5  1 2 3 4 5  2  6 7 | 1 2 3 4 5 6 7 |

1. [Valid Parentheses - LeetCode](https://leetcode.com/problems/valid-parentheses/)
2. [Backspace String Compare - LeetCode](https://leetcode.com/problems/backspace-string-compare/description/)
3. [Insert An Element At Its Bottom In A Given Stack - Coding Ninjas](https://www.codingninjas.com/studio/problems/insert-an-element-at-its-bottom-in-a-given-stack_1171166)
4. [Maximum Equal Stack Sum](https://www.codingninjas.com/studio/problems/maximum-equal-stack-sum_1062571)
5. [Reversing a Queue - Coding Ninjas](https://www.codingninjas.com/studio/problems/reversing-a-queue_982934)
6. [Reverse Stack Using Recursion](https://www.codingninjas.com/studio/problems/reverse-stack-using-recursion_631875)