

## STACK & QUEUE - SET 2 QUESTIONS

### Question 1:

❖ **Problem link:**

[https://practice.geeksforgeeks.org/problems/reverse-first-k-elements-of-queue/1/?category\[\]=Stack&category\[\]=Stack&page=1&query=category\[\]Stackpage1category\[\]Stack](https://practice.geeksforgeeks.org/problems/reverse-first-k-elements-of-queue/1/?category[]=Stack&category[]=Stack&page=1&query=category[]Stackpage1category[]Stack)

❖ **Difficulty level:** Easy

❖ **Expected Complexity:**

- Time:  $O(N)$
- Extra space:  $O(N)$

### Question 2:

❖ **Problem link:**

[https://practice.geeksforgeeks.org/problems/get-min-at-pop/1/?category\[\]=Stack&category\[\]=Stack&page=1&query=category\[\]Stackpage1category\[\]Stack](https://practice.geeksforgeeks.org/problems/get-min-at-pop/1/?category[]=Stack&category[]=Stack&page=1&query=category[]Stackpage1category[]Stack)

❖ **Difficulty level:** Easy

❖ **Expected Complexity:**

- Time:  $O(N)$
- Extra space:  $O(N)$

### Question 3:

- ❖ **Problem link:** <https://www.hackerearth.com/practice/data-structures/queues/basics-of-queues/practice-problems/algorithm/disk-tower-b7cc7a50/>
- ❖ **Difficulty level:** Easy
- ❖ **Expected Complexity:**
  - Time:  $O(n)$
  - Extra space:  $O(n)$

### Question 4:

- ❖ **Problem link:** <https://leetcode.com/problems/next-greater-element-i/>
- ❖ **Difficulty level:** Easy
- ❖ **Expected Complexity:**
  - Time:  $O(n)$
  - Extra space:  $O(n)$

### Question 5:

- ❖ **Problem link:** <https://leetcode.com/problems/next-greater-element-ii/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
  - Time:  $O(n)$
  - Extra space:  $O(n)$

### Question 6:

- ❖ **Problem link:** <https://leetcode.com/problems/remove-k-digits/solution/>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
  - Time:  $O(n)$
  - Extra space:  $O(n)$

### Question 7:

- ❖ **Problem link:**  
[https://practice.geeksforgeeks.org/problems/count-the-reversals0401/1/?category\[\]=Queue&category\[\]=Queue&page=1&query=category\[\]Queuepage1category\[\]Queue](https://practice.geeksforgeeks.org/problems/count-the-reversals0401/1/?category[]=Queue&category[]=Queue&page=1&query=category[]Queuepage1category[]Queue)
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
  - Time:  $O(|S|)$
  - Extra space:  $O(1)$

### Question 8:

- ❖ **Problem link:**  
[https://practice.geeksforgeeks.org/problems/longest-valid-parentheses5657/1/?category\[\]=Stack&category\[\]=Stack&page=2&query=category\[\]Stackpage2category\[\]Stack](https://practice.geeksforgeeks.org/problems/longest-valid-parentheses5657/1/?category[]=Stack&category[]=Stack&page=2&query=category[]Stackpage2category[]Stack)
- ❖ **Difficulty level:** Hard
- ❖ **Expected Complexity:**
  - Time:  $O(|S|)$
  - Extra space:  $O(|S|)$