

## STRINGS - SET 2 QUESTIONS

### Question 1:

- ❖ Problem link: <https://practice.geeksforgeeks.org/problems/parenthesis-checker/0>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
  - Time:  $O(|S|)$
  - Extra space:  $O(|S|)$

### Question 2:

- ❖ Problem link: <https://practice.geeksforgeeks.org/problems/longest-repeating-subsequence/0>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
  - Time:  $O(n^2)$
  - Extra space:  $O(n^2)$

### Question 3:

- ❖ Problem link: <https://practice.geeksforgeeks.org/problems/isomorphic-strings/0>
- ❖ Difficulty level: Easy
- ❖ Expected Complexity:
  - Time:  $O(|str1| + |str2|)$
  - Extra space:  $O(\text{Number of different characters})$

#### Question 4:

- ❖ **Problem link:** <https://practice.geeksforgeeks.org/problems/next-permutation/0>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
  - Time:  $O(N)$
  - Extra space:  $O(1)$

#### Question 5:

- ❖ **Problem link:** <https://practice.geeksforgeeks.org/problems/count-the-reversals/0>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
  - Time:  $O(|S|)$
  - Extra space:  $O(1)$

#### Question 6:

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

### Question 7:

- ❖ **Problem link:** <https://practice.geeksforgeeks.org/problems/excel-sheet5448/1>
- ❖ **Difficulty level:** Medium
- ❖ **Expected Complexity:**
  - Time:  $O(\log(N))$
  - Extra space:  $O(\log(N))$

### Question 8:

- ❖ **Problem link:**  
<https://practice.geeksforgeeks.org/problems/find-all-possible-palindromic-partitions-of-a-string/1>
- ❖ **Difficulty level:** Hard
- ❖ **Expected Complexity:**
  - Time:  $O(N \cdot 2^N)$
  - Extra space:  $O(N^2)$

### Question 9:

- ❖ **Problem link:** <https://leetcode.com/problems/tag-validator/>
- ❖ **Difficulty level:** Hard
- ❖ **Expected Complexity:**
  - Time:  $O(n)$
  - Extra space:  $O(n)$

Note: The solutions of all these questions will be provided on 13th May, 2021