Two Pointers & Sliding Window Problem Sets (Himanshu Assignment- 24Jan)

Two Pointers Problems

Easy (4 problems)

1. **Two Sum II - Input Array Is Sorted**
   - LeetCode: https://leetcode.com/problems/two-sum-ii-input-array-is-sorted/
   - GFG: https://www.geeksforgeeks.org/problems/key-pair5616/1
2. **Remove Duplicates from Sorted Array**
   - LeetCode: https://leetcode.com/problems/remove-duplicates-from-sorted-array/
   - GFG: https://www.geeksforgeeks.org/problems/remove-duplicate-elements-from-sorted-array/1
3. **Valid Palindrome**
   - LeetCode: https://leetcode.com/problems/valid-palindrome/
   - GFG: https://www.geeksforgeeks.org/problems/palindrome-string0817/1
4. **Move Zeroes**
   - LeetCode: https://leetcode.com/problems/move-zeroes/
   - GFG: https://www.geeksforgeeks.org/problems/move-all-zeroes-to-end-of-array0751/1

Medium (4 problems)

5. **3Sum**
   - LeetCode: https://leetcode.com/problems/3sum/
   - GFG: https://www.geeksforgeeks.org/problems/triplet-sum-in-array-1587115621/1
6. **Container With Most Water**
   - LeetCode: https://leetcode.com/problems/container-with-most-water/
   - GFG: https://www.geeksforgeeks.org/problems/container-with-most-water0535/1
7. **Sort Colors (Dutch National Flag)**
   - LeetCode: https://leetcode.com/problems/sort-colors/
   - GFG: https://www.geeksforgeeks.org/problems/sort-an-array-of-0s-1s-and-2s4231/1
8. **Remove Nth Node From End of List**
   - LeetCode: https://leetcode.com/problems/remove-nth-node-from-end-of-list/
   - GFG: https://www.geeksforgeeks.org/problems/nth-node-from-end-of-linked-list/1

Hard (2 problems)

9. **Trapping Rain Water**
   - LeetCode: https://leetcode.com/problems/trapping-rain-water/

- GFG: https://www.geeksforgeeks.org/problems/trapping-rain-water-1587115621/1
10. **Minimum Window Substring**
    - LeetCode: https://leetcode.com/problems/minimum-window-substring/
    - GFG: https://www.geeksforgeeks.org/problems/smallest-window-in-a-string-containing-all-the-characters-of-another-string-1587115621/1

Sliding Window Problems

Easy (4 problems)

1. **Maximum Average Subarray I**
    - LeetCode: https://leetcode.com/problems/maximum-average-subarray-i/
    - GFG: https://www.geeksforgeeks.org/problems/max-sum-subarray-of-size-k5313/1
2. **Contains Duplicate II**
    - LeetCode: https://leetcode.com/problems/contains-duplicate-ii/
    - GFG: https://www.geeksforgeeks.org/problems/array-duplicates-within-k-distance/1
3. **Find All Anagrams in a String**
    - LeetCode: https://leetcode.com/problems/find-all-anagrams-in-a-string/
    - GFG: https://www.geeksforgeeks.org/problems/count-occurences-of-anagrams5839/1
4. **Subarray Sum Equals K** (can use sliding window with prefix sum)
    - LeetCode: https://leetcode.com/problems/subarray-sum-equals-k/
    - GFG: https://www.geeksforgeeks.org/problems/subarrays-with-sum-k/1

Medium (4 problems)

5. **Longest Substring Without Repeating Characters**
    - LeetCode: https://leetcode.com/problems/longest-substring-without-repeating-characters/
    - GFG: https://www.geeksforgeeks.org/problems/length-of-the-longest-substring3036/1
6. **Longest Repeating Character Replacement**
    - LeetCode: https://leetcode.com/problems/longest-repeating-character-replacement/
    - GFG: https://www.geeksforgeeks.org/problems/longest-repeating-subsequence2004/1
7. **Permutation in String**
    - LeetCode: https://leetcode.com/problems/permutation-in-string/
    - GFG: https://www.geeksforgeeks.org/problems/permutation-in-string/1
8. **Fruit Into Baskets**
    - LeetCode: https://leetcode.com/problems/fruit-into-baskets/
    - GFG: https://www.geeksforgeeks.org/problems/fruit-into-baskets-1663137462/1

Hard (2 problems)

9. **Sliding Window Maximum**
   - LeetCode: https://leetcode.com/problems/sliding-window-maximum/
   - GFG: https://www.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size-k3101/1
10. **Minimum Window Substring** (also in Two Pointers)
    - LeetCode: https://leetcode.com/problems/minimum-window-substring/
    - GFG: https://www.geeksforgeeks.org/problems/smallest-window-in-a-string-containing-all-the-characters-of-another-string-1587115621/1