Sliding Window Pattern Problem Classification

Fixed-Size Sliding Window

- Maximum Points You Can Obtain from Cards (Medium): Fixed-size window from either end.

- Binary Subarray With Sum (Easy): Fixed-size logic with prefix sum.

Variable-Size Sliding Window

- Longest Substring Without Repeating Characters (Medium): Unique characters maintained.

- Max Consecutive Ones III (Medium): At most K zeros allowed.

- Fruit Into Baskets (Medium): At most 2 distinct types.

- Longest Repeating Character Replacement (Medium): Replace up to K characters.

- Number of Substrings Containing All Three Characters (Medium): Window must include a, b, and c.

- Longest Substring with At Most K Distinct Characters (Medium): At most K distinct characters.

- Subarray with K Different Integers (Hard): Exactly K distinct integers.

- Minimum Window Substring (Hard): Minimum window covering all required characters.

Two-Pointer Subsequence Match

- Minimum Window Subsequence (Hard): Subsequence match using two pointers.

Prefix Sum + Hash Map

- Count Number of Nice Subarrays (Medium): Count subarrays with exactly K odd numbers.