# **SLIDING WINDOW PROBLEMS**

**EXAMPLE PROBLEMS:**

1. [**https://www.geeksforgeeks.org/problems/smallest-subarray-with-sum-greater-than-x5651/1?itm\_source=geeksforgeeks&itm\_medium=article&itm\_campaign=practice\_card**](https://www.geeksforgeeks.org/problems/smallest-subarray-with-sum-greater-than-x5651/1?itm_source=geeksforgeeks&itm_medium=article&itm_campaign=practice_card)
2. [**https://www.geeksforgeeks.org/problems/subarray-with-given-sum-1587115621/1?itm\_source=geeksforgeeks&itm\_medium=article&itm\_campaign=practice\_card**](https://www.geeksforgeeks.org/problems/subarray-with-given-sum-1587115621/1?itm_source=geeksforgeeks&itm_medium=article&itm_campaign=practice_card)
3. [**https://www.geeksforgeeks.org/problems/smallest-distant-window3132/1?itm\_source=geeksforgeeks&itm\_medium=article&itm\_campaign=practice\_card**](https://www.geeksforgeeks.org/problems/smallest-distant-window3132/1?itm_source=geeksforgeeks&itm_medium=article&itm_campaign=practice_card)

**GFG:**

1. [**https://www.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size-k3101/1**](https://www.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size-k3101/1)
2. [**https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-k0809/1**](https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-k0809/1)
3. [**https://www.geeksforgeeks.org/problems/max-sum-subarray-of-size-k5313/1**](https://www.geeksforgeeks.org/problems/max-sum-subarray-of-size-k5313/1)
4. [**https://www.geeksforgeeks.org/problems/smallest-window-in-a-string-containing-all-the-characters-of-another-string-1587115621/1**](https://www.geeksforgeeks.org/problems/smallest-window-in-a-string-containing-all-the-characters-of-another-string-1587115621/1)
5. [**https://www.geeksforgeeks.org/problems/length-of-the-longest-substring3036/1**](https://www.geeksforgeeks.org/problems/length-of-the-longest-substring3036/1)
6. [**https://www.geeksforgeeks.org/problems/first-negative-integer-in-every-window-of-size-k3345/1**](https://www.geeksforgeeks.org/problems/first-negative-integer-in-every-window-of-size-k3345/1)
7. [**https://www.geeksforgeeks.org/problems/count-distinct-elements-in-every-window/1**](https://www.geeksforgeeks.org/problems/count-distinct-elements-in-every-window/1)
8. [**https://www.geeksforgeeks.org/problems/smallest-distant-window3132/1**](https://www.geeksforgeeks.org/problems/smallest-distant-window3132/1)
9. [**https://www.geeksforgeeks.org/problems/largest-sum-subarray-of-size-at-least-k3121/1**](https://www.geeksforgeeks.org/problems/largest-sum-subarray-of-size-at-least-k3121/1)
10. [**https://www.geeksforgeeks.org/problems/check-if-permutation-is-substring/1**](https://www.geeksforgeeks.org/problems/check-if-permutation-is-substring/1)

**LEETCODE:**

**Fixed sized Sliding Window:**

1. [**https://leetcode.com/problems/maximum-sum-of-distinct-subarrays-with-length-k/description/**](https://leetcode.com/problems/maximum-sum-of-distinct-subarrays-with-length-k/description/)
2. [**https://leetcode.com/problems/sliding-subarray-beauty/description/**](https://leetcode.com/problems/sliding-subarray-beauty/description/)
3. [**https://leetcode.com/problems/maximum-points-you-can-obtain-from-cards/description/**](https://leetcode.com/problems/maximum-points-you-can-obtain-from-cards/description/)
4. [**https://leetcode.com/problems/maximum-average-subarray-i/description/**](https://leetcode.com/problems/maximum-average-subarray-i/description/)
5. [**https://leetcode.com/problems/number-of-sub-arrays-of-size-k-and-average-greater-than-or-equal-to-threshold/description/**](https://leetcode.com/problems/number-of-sub-arrays-of-size-k-and-average-greater-than-or-equal-to-threshold/description/)
6. [**https://leetcode.com/problems/check-if-a-string-contains-all-binary-codes-of-size-k/description/**](https://leetcode.com/problems/check-if-a-string-contains-all-binary-codes-of-size-k/description/)
7. [**https://leetcode.com/problems/find-all-anagrams-in-a-string/description/**](https://leetcode.com/problems/find-all-anagrams-in-a-string/description/)
8. [**https://leetcode.com/problems/permutation-in-string/description/**](https://leetcode.com/problems/permutation-in-string/description/)
9. [**https://leetcode.com/problems/sliding-window-maximum/description/**](https://leetcode.com/problems/sliding-window-maximum/description/)
10. [**https://leetcode.com/problems/substrings-of-size-three-with-distinct-characters/description/**](https://leetcode.com/problems/substrings-of-size-three-with-distinct-characters/description/)

**Variable Sized Sliding Window:**

1. [**https://leetcode.com/problems/find-the-longest-semi-repetitive-substring/description/**](https://leetcode.com/problems/find-the-longest-semi-repetitive-substring/description/)
2. [**https://leetcode.com/problems/count-the-number-of-good-subarrays/description/**](https://leetcode.com/problems/count-the-number-of-good-subarrays/description/)
3. [**https://leetcode.com/problems/minimum-consecutive-cards-to-pick-up/description/**](https://leetcode.com/problems/minimum-consecutive-cards-to-pick-up/description/)
4. [**https://leetcode.com/problems/minimum-operations-to-reduce-x-to-zero/description/**](https://leetcode.com/problems/minimum-operations-to-reduce-x-to-zero/description/)
5. [**https://leetcode.com/problems/count-number-of-nice-subarrays/description/**](https://leetcode.com/problems/count-number-of-nice-subarrays/description/)
6. [**https://leetcode.com/problems/fruit-into-baskets/description/**](https://leetcode.com/problems/fruit-into-baskets/description/)
7. [**https://leetcode.com/problems/max-consecutive-ones-iii/description/**](https://leetcode.com/problems/max-consecutive-ones-iii/description/)
8. [**https://leetcode.com/problems/subarray-product-less-than-k/description/**](https://leetcode.com/problems/subarray-product-less-than-k/description/)
9. [**https://leetcode.com/problems/minimum-size-subarray-sum/description/**](https://leetcode.com/problems/minimum-size-subarray-sum/description/)
10. [**https://leetcode.com/problems/longest-substring-without-repeating-characters/description/**](https://leetcode.com/problems/longest-substring-without-repeating-characters/description/)