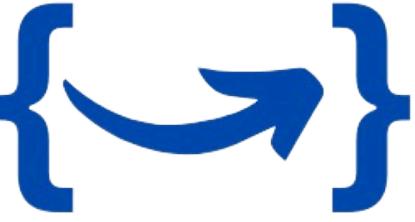


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PRACTICE SUBARRAY QUESTIONS

PATTERN WISE

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FOUND SUBARRAY QUESTIONS LIKE THIS?

- Find the maximum subarray
- Find a subarray where $\text{sum}(\text{subarray}) == \text{target_value}$
- Find the subarray with k distinct values
- Find the longest palindromic subarray
- Find the longest (ascending) subarray where $\text{subarray}[i+1] > \text{subarray}[i]$

LET'S DEAL WITH IT PATTERN-WISE!



SLIDING WINDOW

SHRINK WINDOW/RESET POINTER BY RULES

- Longest Substring Without Repeating Characters
- Minimum Size Subarray Sum
- Longest Substring with At Most K Distinct Characters
- Longest Subarray with Sum Less Than or Equal to K
- Fruits into Baskets (aka "Longest Substring with Two Distinct Characters")



SLIDING WINDOW

HASHMAP (STRINGS /DISTINCT/REPEAT CHARACTER QUESTIONS)

- LONGEST SUBSTRING WITH AT MOST K DISTINCT CHARACTERS
- LONGEST SUBSTRING WITH EXACTLY K DISTINCT CHARACTERS
- FIND ALL ANAGRAMS IN A STRING

MASSIVE SUCCESS RATE

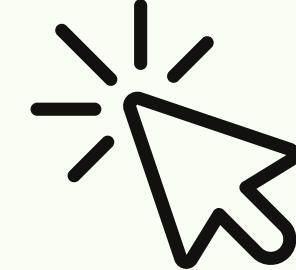


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PREFIX SUM WITH HASHMAP FOR SUBARRAYS

- SUBARRAY SUM EQUALS K
- COUNT OF SUBARRAYS WITH SUM DIVISIBLE BY K
- MAXIMUM SIZE SUBARRAY SUM EQUALS K
- SUBARRAY PRODUCT LESS THAN K



DYNAMIC PROGRAMMING FOR SUBARRAYS

- MAXIMUM SUM OF NON-ADJACENT ELEMENTS
- LONGEST COMMON SUBARRAY
- PALINDROMIC SUBSTRINGS
- MAXIMUM LENGTH OF REPEATED SUBARRAY
- MINIMUM PATH SUM IN A GRID

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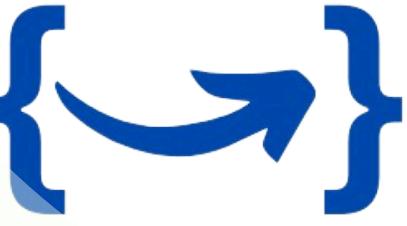
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