



# PRACTICE SUBARRAY QUESTIONS

## PATTERN WISE

---

PRIME CODING

# 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

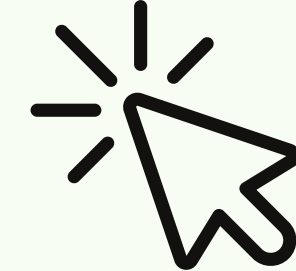


**"Transform Your Interview Opportunity into an Offer Letter and Make Your Parents Proud!"**

- In-depth Technical Mock
  - Crack coding challenges with real TCS Prime experts.
- HR & Managerial Prep
  - Master behavioral questions and impress TCS.
- Full Interview Simulation
  - Ace both technical and HR in one session.
- Resume Review
  - Identify and fix weaknesses for a standout CV.
- Personalized Feedback & Expert Guidance
  - Tailored improvement tips to boost success.

**[www.primecoding.in](http://www.primecoding.in)**

WWW.PRIMECODING.IN



# **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**

# JOIN PRIME CODING COMMUNITY



**Prime Coding Community**

21,116 members



Join our community of coders, developers, and tech enthusiasts of all levels. Whether you're a beginner or a pro, this is the place to share knowledge, ask questions, and stay updated with the latest trends. Connect with like-minded individuals.

Description

**NOTES**  
**INTERACTION**  
**NETWORK**  
**LEARN**  
**SHARE**

**LINK IN DESCRIPTION**



# Preparation Resource



**BREAKING NEWS**

**tcs FREE NQT**  
**2025 ANNOUNCED**

**COMPLETE PROCSSES**  
**APPLY TODAY**

**TCS Interview Playlist**

Prime Coding

**COMPLETE GUIDE**

**> CRACK**  
**ACCENTURE**  
**STARTED HIRING**

**TIPS AND RESOURCES**

**Accenture**

Prime Coding

**COMPLETE PREP TIPS**

**HIRING STARTED**  
**ALL ROUNDS IN-DETAIL**

**4.25 LPA - 7.5 LPA**

**APPLY NOW**

**Capgemini**

**Capgemini**

Prime Coding

**cognizant**

**TECHNICAL**  
**ASSESSMENT**

**ACTUAL CODING**  
**QUES & SOLUTIONS**

**LATEST 18 SEPT**

**Cognizant**

Prime Coding

**tcs TATA**  
**CONSULTANCY**  
**SERVICES**

**BIG OPPORTUNITY**

**OFF-CAMPUS**  
**MEGA HIRING**

**DON'T MISS**

**3.5 LPA - 19 LPA**

**Hiring ALERTS**

Prime Coding



# Preparation Resource



**BREAKING NEWS**

**tcs FREE NQT**  
**2025 ANNOUNCED**

**COMPLETE PROCSSES**  
**APPLY TODAY**

**TCS Interview Playlist**

Prime Coding

**COMPLETE GUIDE**

**> CRACK**  
**ACCENTURE**  
**STARTED HIRING**

**TIPS AND RESOURCES**

**Accenture**

Prime Coding

**COMPLETE PREP TIPS**

**HIRING STARTED**  
**ALL ROUNDS IN-DETAIL**

**4.25 LPA - 7.5 LPA**

**APPLY NOW**

**Capgemini**

**Capgemini**

Prime Coding

**cognizant**

**TECHNICAL**  
**ASSESSMENT**

**ACTUAL CODING**  
**QUES & SOLUTIONS**

**LATEST 18 SEPT**

**Cognizant**

Prime Coding

**tcs TATA**  
**CONSULTANCY**  
**SERVICES**

**BIG OPPORTUNITY**

**OFF-CAMPUS**  
**MEGA HIRING**

**DON'T MISS**

**3.5 LPA - 19 LPA**

**Hiring ALERTS**

Prime Coding

# Thank You.



 Share

 **SUBSCRIBE**



---

PRIME CODING