

Explorin Academy

Cheat Sheet - Arrays & Strings | Part 1

Time to level up your preparation and tackle coding assessments with ease using our Array and String Master sheet – the key to unlocking success in coding challenges in exams like TCS NQT.

Arrays:

01. [Mean](#)
02. [Product of array elements](#)
03. [Sign of the Product of an Array](#)
04. [Second Largest](#)
05. [Find the smallest and second smallest element in an array](#)
06. [Average Salary Excluding the Minimum and Maximum Salary](#)
07. [Immediate Smaller Element](#)
08. [Largest Number At Least Twice of Others](#)
09. [Kids With the Greatest Number of Candies](#)
10. [Leaders in an array](#)
11. [Find Greatest Common Divisor of Array](#)
12. [Sieve of Eratosthenes](#)
13. [Difference Between Element Sum and Digit Sum of an Array](#)
14. [Add to Array-Form of Integer](#)
15. [Single Number](#)
16. [Palindromic Array](#)
17. [Average Value of Even Numbers That Are Divisible by Three](#)
18. [Find N Unique Integers Sum up to Zero](#)
19. [Alternate positive and negative numbers](#)
20. [Move all negative elements to end](#)



21. [Reverse an Array](#)
22. [Rotate Array](#)
23. [Block swap algorithm for array rotation](#)
24. [Insertion Sort](#)
25. [Selection Sort](#)
26. [Bubble Sort](#)
27. [Quick Sort](#)
28. [Merge Sorted Array](#)
29. [Merge Sort](#)
30. [Find duplicates in an array](#)
31. [Check if array is sorted](#)
32. [Find the median](#)
33. [Kth smallest element](#)
34. [k largest elements](#)
35. [Maximum Sum With Exactly K Elements](#)
36. [Maximum Product of Three Numbers](#)
37. [Squares of a Sorted Array](#)
38. [Majority Element](#)
39. [Element Appearing More Than 25% In Sorted Array](#)
40. [Rope Cutting](#)
41. [Chocolate Distribution Problem](#)
42. [Sort Colors](#)
43. [Check if two arrays are equal or not](#)
44. [Remove Duplicates from unsorted array](#)
45. [Replace Each Element Of Array With Its Corresponding Rank](#)
46. [Sort a K-Increasing-Decreasing Array](#)



47. [Minimize the sum of product](#)
48. [Search an Element in an array](#)
49. [Implement Upper Bound](#)
50. [Implement Lower Bound](#)
51. [Search Insert Position](#)
52. [Find Smallest Letter Greater Than Target](#)
53. [Ceil The Floor](#)
54. [Find First and Last Position of Element in Sorted Array](#)
55. [Number of occurrence](#)
56. [Sqrt\(x\)](#)
57. [Array Subset of another array](#)
58. [Find Peak Element](#)
59. [Smallest subarray with sum greater than x](#)
60. [Max Sum Subarray of size K](#)
61. [Best Time to Buy and Sell Stock](#)
62. [Kadane's Algorithm](#)
63. [Two Sum](#)
64. [4Sum](#)
65. [Equal Sum](#)
66. [Find the Pivot Integer](#)
67. [Find Pair Given Difference](#)
68. [Remove Element](#)
69. [Remove duplicate elements from sorted Array](#)
70. [Intersection of two arrays](#)
71. [Matrix Diagonal Sum](#)
72. [Given an array of pairs, find all symmetric pairs in it](#)



73. [Modify the Matrix](#)
74. [Counting Rock Samples](#)
75. [Addition of two square matrices](#)
76. [Count Negative Numbers in a Sorted Matrix](#)
77. [Help a Thief!!!](#)

Strings:

01. [Palindrome String](#)
02. [Anagram](#)
03. [Convert String to LowerCase](#)
04. [Remove character](#)
05. [Remove all characters other than alphabets](#)
06. [Reverse a String](#)
07. [Count Alphabets](#)
08. [Non Repeating Character](#)
09. [Encrypt the string - 1](#)
10. [Remove all duplicates from a given string](#)
11. [Lexicographically next string](#)
12. [Isomorphic Strings](#)
13. [Rotate String](#)
14. [Sort Characters By Frequency](#)
15. [Program to print ASCII Value of a character](#)
16. [Remove vowels from string](#)
17. [Remove Spaces](#)
18. [Palindrome Sentence](#)
19. [Reverse Words in a String](#)



20. [Count vowels, consonants, and spaces](#)
21. [Capitalize the first and last character of each word in a string](#)
22. [Convert characters of a string to opposite case](#)
23. [Program to find Smallest and Largest Word in a String](#)
24. [Sort a String](#)
25. [Count number of words](#)
26. [Display longest name](#)
27. [Reversing the vowels](#)
28. [Reversing the equation](#)
29. [Arya's Long String](#)
30. [Sum of numbers in string](#)
31. [Largest Odd Number in String](#)
32. [Divisible by 7](#)
33. [Remove brackets from an algebraic string containing + and - operators](#)
34. [Remove Outermost Parentheses](#)
35. [Maximum Nesting Depth of the Parentheses](#)
36. [Longest Common Prefix](#)
37. [Roman to Integer](#)
38. [String to Integer \(atoi\)](#)
39. [Product is even or odd?](#)
40. [Odd to Even](#)
41. [Largest number with given sum](#)
42. [Check if two strings are k-anagrams or not](#)
43. [Smallest window containing 0, 1 and 2](#)

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Consistency breeds success; stay committed to your journey.

Dare to Dream, Champion!