



Commonly asked array programming questions-

Basic Level

- 1. Find the maximum and minimum element in an array.
- 2. Reverse an array.
- 3. Find the sum of all elements in an array.
- 4. Check if an array is sorted (ascending/descending).
- 5. Find the frequency of each element in the array.
- 6. Remove duplicates from an array.
- 7. Search for an element in an array (linear search).
- 8. Count the number of even and odd numbers.
- 9. Merge two sorted arrays.
- 10. Shift all zeroes to the end of the array (without changing the order of non-zero elements).

Intermediate Level

- 11. Find the second largest/smallest element in an array.
- 12. Rotate an array by k positions.
- 13. Check if two arrays are equal or not.
- 14. Find the common elements in two arrays.
- 15. Find the missing number in a sequence of 1 to N.
- 16. Count the number of pairs with a given sum.
- 17. Move all negative numbers to one side.

global.in





= Jraining for Professional Competence=

- 18. Find the majority element in an array (if exists).
- 19. Find the element that appears only once when all others appear twice.
- 20. Kadane's Algorithm Maximum Subarray Sum.

Advanced Level

- 21. Find subarray with a given sum (non-negative integers).
- 22. Longest subarray with given sum K.
- 23. Maximum product subarray.
- 24. Find the duplicate number (without modifying array).
- 25. Merge intervals (like meeting times).
- 26. Trapping Rain Water problem.
- 27. Find all subarrays with zero sum.
- 28. Rearrange array in alternating positive & negative items.
- 29. Next greater element for each element in array.
- 30. Sliding Window Maximum.

Sorting & Searching Based

- 31. Binary search in a sorted array.
- 32. Find first and last occurrence of an element.
- 33. Find peak element.

cglobal.in





Jraining for Professional Competence

- 34. Search in a rotated sorted array.
- 35. Count inversions in an array.
- 36. Sort array of 0s, 1s and 2s (Dutch National Flag problem).
- 37. Merge two sorted arrays without using extra space.
- 38. Median of two sorted arrays.
- 39. Find the k-th smallest element in the array.
- 40. Find the frequency of a number using binary search.

Miscellaneous & Company-Focused

- 41. Rearrange array to form largest number.
- 42. Rotate matrix by 90 degrees.
- 43. Set matrix zeroes (Google, Amazon).
- 44. Pascal's Triangle rows.
- 45. Longest consecutive sequence (unordered array).
- 46. Maximum length of even-odd subarray.
- 47. Count number of distinct elements in every window of size k.
- 48. Find subarray with XOR = K.
- 49. Find equilibrium index of array.
- 50. Count smaller elements to the right.

tpcglobal.in