

DSA Questions for Cactro Test (Java)

Arrays (20 Questions)

1. Find the maximum and minimum element in an array.
2. Reverse an array without using extra space.
3. Find the second largest element in an array.
4. Move all zeros to the end of an array.
5. Find the missing number in a sequence of 1 to N.
6. Check if an array is sorted or not.
7. Find duplicate elements in an array.
8. Remove duplicates from a sorted array.
9. Find intersection of two arrays.
10. Find union of two arrays.
11. Rotate an array by K positions.
12. Find pair of elements with a given sum.
13. Count frequency of each element.
14. Find subarray with the maximum sum (Kadane's Algorithm).
15. Find the element that appears once when others appear twice.
16. Find common elements in three sorted arrays.
17. Merge two sorted arrays into one sorted array.
18. Find the equilibrium index of an array.
19. Find the number of even and odd elements in an array.
20. Replace every element with the greatest element on its right.

2D Arrays (10 Questions)

1. Print a 2D array in matrix form.
2. Find the sum of all elements in a 2D array.
3. Find the maximum element in a 2D array.
4. Print the transpose of a matrix.
5. Check if a matrix is symmetric.
6. Perform matrix addition.
7. Perform matrix multiplication.
8. Find the row with the maximum sum.
9. Print elements in spiral order.
10. Search an element in a sorted 2D matrix.