

Array Questions (Basic Level)

1. Print all elements of the array

Input: [1, 2, 3]

Output: 1 2 3

2. Find the sum of all elements

Input: [1, 2, 3, 4]

Output: 10

3. Find the average of elements

Input: [4, 6, 8]

Output: 6.0

4. Find the maximum element

Input: [7, 2, 9, 4]

Output: 9

5. Find the minimum element

Input: [7, 2, 9, 4]

Output: 2

6. Count even and odd numbers

Input: [1, 2, 3, 4, 5]

Output: Even: 2, Odd: 3

7. Search for an element in array

Input: [10, 20, 30], Search: 20

Output: Found at index 1

8. Reverse the array

Input: [1, 2, 3, 4, 5]

Output: [5, 4, 3, 2, 1]

9. Copy elements to another array

Input: [3, 5, 7]

Output: Copied array: [3, 5, 7]

10. Check if array is sorted (ascending)

Input: [1, 2, 3, 4]

Output: Yes

11. Find second largest element

Input: [5, 3, 9, 1]

Output: 5

12. Find second smallest element

Input: [5, 3, 9, 1]

Output: 3

13. Remove duplicate elements

Input: [1, 2, 2, 3, 3]

Output: [1, 2, 3]

14. Count frequency of each element

Input: [1, 2, 2, 3, 3, 3]

Output: 1→1, 2→2, 3→3

15. Left rotate by one

Input: [1, 2, 3, 4]

Output: [2, 3, 4, 1]

16. Right rotate by one

Input: [1, 2, 3, 4]

Output: [4, 1, 2, 3]

17. Insert an element at index 2

Input: [1, 2, 4, 5], Insert: 3 at index 2

Output: [1, 2, 3, 4, 5]

18. Delete element at index 1

Input: [10, 20, 30, 40]

Output: [10, 30, 40]

19. Merge two arrays

Input: [1, 2], [3, 4]

Output: [1, 2, 3, 4]

20. Compare two arrays

Input: [1, 2, 3], [1, 2, 3]

Output: Equal

21. Sort the array

Input: [5, 2, 8, 1]

Output: [1, 2, 5, 8]

22. Move all zeros to end

Input: [1, 0, 2, 0, 3]

Output: [1, 2, 3, 0, 0]

23. Find missing number (1 to N)

Input: [1, 2, 4, 5], N = 5

Output: 3

24. Find duplicate elements

Input: [1, 2, 3, 2, 4]

Output: 2

25. Find all pairs with sum = 6

Input: [1, 5, 7, -1], Sum: 6

Output: (1, 5)

26. Check if array is palindrome

Input: [1, 2, 3, 2, 1]

Output: Yes

27. Separate even and odd numbers

Input: [1, 2, 3, 4]

Output: Even: [2, 4], Odd: [1, 3]

28. Count positive and negative numbers

Input: [-1, 2, -3, 4]

Output: Positive: 2, Negative: 2

29. Difference between sum of even and odd indexed elements

Input: [4, 2, 1, 3]

Output: $(4 + 1) - (2 + 3) = 5 - 5 = 0$

30. Replace all negative numbers with 0

Input: [-1, 2, -3, 4]

Output: [0, 2, 0, 4]

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