Array-Based Problems

1. Sum of the elements in an array.
2. Merge two arrays.
3. Find the occurrences of each element in an array.
4. Create and print an array.
5. Find the maximum element in an array.
6. Find the minimum element in an array.
7. Calculate the sum of elements in an array.
8. Reverse an array.
9. Find the index of an element in an array.
10. Remove duplicate elements from an array.
11. Check if two arrays are equal.
12. Find the frequency of each element in an array.
13. Find the sum of even and odd elements in an array.
14. Find the k-th largest element in an array.
15. Find the common elements between multiple arrays.
16. Find the largest element in an array.
17. Check if an array is a palindrome.
18. Find the difference between the maximum and minimum elements in an array.
19. Find the product of all elements in an array.
20. Check if an array is sorted.
21. Print the elements of an array in reverse order.
22. Remove a specific element from an array.
23. Find the k-th smallest element in an array.
24. Swap two elements in an array.
25. Find the first non-repeating element in an array.
26. Find the intersection of two arrays.

Missing Patterns and Suggested Questions

1. Find the union of two arrays.
2. Rotate an array to the left by a given number of positions.
3. Rotate an array to the right by a given number of positions.
4. Sort an array using a sorting algorithm (Bubble Sort, Quick Sort, etc.).
5. Find the subarray with the maximum sum (Kadane’s Algorithm).
6. Find the longest consecutive subsequence in an array.
7. Count the number of pairs with a given sum in an array.
8. Check if a subarray with a sum of zero exists.
9. Find the majority element in an array (appears more than n/2 times).
10. Find the missing number in a given range of integers.
11. Find all pairs of elements whose sum equals a given value.
12. Rearrange an array such that positive and negative numbers alternate.
13. Find the duplicate element in an array.
14. Find the maximum product subarray.

15. Find the number of inversions in an array.
16. Find the smallest and largest elements in a sorted and rotated array.
17. Rearrange the array in increasing-decreasing order.
18. Split the array into two parts with equal sum.