

DSA QUESTIONS

Arrays

1. **Find the Largest Element:** Write a function to find the largest element in an array.
2. **Find the Smallest Element:** Write a function to find the smallest element in an array.
3. **Sum of All Elements:** Calculate the sum of all elements in an array.
4. **Reverse an Array:** Write a function to reverse the order of elements in an array.
5. **Find the Second Largest Element:** Write a function to find the second largest element in an array.
6. **Find the Second Smallest Element:** Write a function to find the second smallest element in an array.
7. **Check if Array is Sorted:** Write a function to check if an array is sorted in ascending order.
8. **Remove Duplicates:** Write a function to remove duplicate elements from an array.
9. **Find the Missing Number:** Given an array of $n-1$ elements in the range of 1 to n , write a function to find the missing number.
10. **Find the Duplicate Number:** Given an array of $n+1$ elements in the range of 1 to n , write a function to find the duplicate number.
11. **Find the Intersection of Two Arrays:** Write a function to find the common elements between two arrays.
12. **Find the Union of Two Arrays:** Write a function to find all unique elements present in two arrays.
13. **Move Zeros to End:** Write a function to move all zeros in an array to the end while maintaining the order of non-zero elements.
14. **Find the Majority Element:** Write a function to find the element that appears more than half the time in an array.
15. **Find the Element that Appears Once:** Write a function to find the element that appears only once in an array where every other element appears twice.