C++ Programming Concept Based Questions

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Array Questions

- 1. Write a program to find the largest element in an array.
- 2. Create a program to find the smallest element in an array.
- 3. Write a program to calculate the average of elements in an array.
- 4. Create a program to reverse the elements of an array.
- 5. Write a program to sort an array in ascending order using bubble sort.
- 6. Create a program that merges two arrays into one.
- 7. Write a program that removes duplicates from an array.
- 8. Create a program to count occurrences of a specific element in an array.
- 9. Write a program that rotates an array to the left by k positions.
- 10. Create a program that rotates an array to the right by k positions.
- 11. Write a program to find the intersection of two arrays.
- 12. Create a program that finds the union of two arrays.
- 13. Write a program to check if an array is a palindrome.
- 14. Create a program that finds the missing number in an array of n-1 integers.
- 15. Write a program to implement linear search in an array.
- 16. Create a program to implement binary search in a sorted array.
- 17. Write a program to find the second largest element in an array.
- 18. Create a program that counts the number of even and odd numbers in an array.
- 19. Write a program to find the sum of all elements in an array.
- 20. Create a program that finds the maximum difference between two elements in an array.
- 21. Write a program to implement a 2D array and perform operations like addition and subtraction.
- 22. Create a program that transposes a matrix.
- 23. Write a program that checks if two arrays are equal.
- 24. Create a program that duplicates an array.
- 25. Write a program that rotates a 2D matrix 90 degrees clockwise.
- 26. Create a program that finds the largest sum of a contiguous subarray.

- 27. Write a program that implements selection sort on an array.
- 28. Create a program that implements insertion sort on an array.
- 29. Write a program that finds common elements between two arrays.
- 30. Create a program that counts how many times a number appears in an array.