

Tech Boy's BEGINNER-50 Programming Questions

1. **Hello World:** Write a program to print "Hello, World!" to the console.
2. **Add Two Numbers:** Write a program to add two numbers entered by the user.
3. **Find Maximum Number:** Find the maximum number in an array.
4. **Factorial:** Write a function to calculate the factorial of a number.
5. **Fibonacci Sequence:** Generate the first N numbers in the Fibonacci sequence.
6. **Check Prime Number:** Determine if a number is prime or not.
7. **Reverse a String:** Write a program to reverse a string.
8. **Palindrome Checker:** Check if a given word or phrase is a palindrome.
9. **Sum of Digits:** Calculate the sum of the digits of a number.
10. **Swap Two Variables:** Swap the values of two variables without using a third variable.
11. **Count Vowels and Consonants:** Count the number of vowels and consonants in a string.
12. **Find the Largest Element in an Array:** Find the largest element in an array.
13. **Calculate Area and Perimeter:** Calculate the area and perimeter of a rectangle.
14. **Calculate Simple Interest:** Calculate simple interest based on user input.
15. **Even and Odd Numbers:** Print even and odd numbers from 1 to N.
16. **Check Leap Year:** Determine if a given year is a leap year.
17. **Reverse a Number:** Reverse the digits of a number.
18. **Check Anagrams:** Check if two strings are anagrams of each other.
19. **Power of a Number:** Calculate the power of a number using recursion.
20. **Calculate Factorial using Recursion:** Calculate factorial using a recursive function.
21. **String Reversal without Library Function:** Reverse a string without using library functions.
22. **Binary to Decimal Conversion:** Convert a binary number to decimal.
23. **Decimal to Binary Conversion:** Convert a decimal number to binary.
24. **Array Rotation:** Rotate an array to the right by K positions.
25. **GCD (Greatest Common Divisor):** Find the greatest common divisor of two numbers.
26. **LCM (Least Common Multiple):** Find the least common multiple of two numbers.
27. **Find Missing Number:** Find the missing number in an array of consecutive integers.
28. **Array Sorting:** Implement a simple sorting algorithm (e.g., bubble sort).
29. **Linear Search:** Perform a linear search to find an element in an array.
30. **Binary Search:** Implement binary search in a sorted array.
31. **Print Prime Numbers:** Print prime numbers up to N.
32. **Armstrong Number:** Check if a number is an Armstrong number.
33. **Print Patterns:** Print various patterns using loops (e.g., triangle, square, diamond).
34. **Calculator Program:** Create a simple calculator program with basic operations.
35. **Sum of Series:** Calculate the sum of a series (e.g., $1 + 2 + 3 + \dots + N$).
36. **Matrix Operations:** Perform basic matrix operations (addition, multiplication).
37. **Find Duplicate Elements:** Find duplicate elements in an array.
38. **Find the Intersection of Two Arrays:** Find the common elements in two arrays.

39. **Count Words in a String:** Count the number of words in a sentence.
40. **Remove Duplicate Characters:** Remove duplicate characters from a string.
41. **Check if a String Contains a Substring:** Check if a string contains a specified substring.
42. **Implement a Stack:** Implement a stack data structure.
43. **Implement a Queue:** Implement a queue data structure.
44. **Linked List Operations:** Implement basic linked list operations (insertion, deletion).
45. **Calculate Nth Fibonacci Number:** Calculate the Nth Fibonacci number using dynamic programming.
46. **Find the Second Largest Element:** Find the second largest element in an array.
47. **Reverse a Linked List:** Reverse a singly linked list.
48. **Check Balanced Parentheses:** Check if a string containing parentheses is balanced.
49. **Find the Intersection of Two Linked Lists:** Find the intersection point of two linked lists.
50. **Print Prime Factors:** Print the prime factors of a given number.

Complete All these to boost your confidence as a beginner

Thank you

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