

Coding Questions

Very Important Basic Questions

Prime Number

Palindrome

Armstrong number

Factorial

Swap two numbers

Fibonacci

Largest ,smallest ,second smallest ,second largest ,third smallest ,third largest in an array

Patterns like (square ,pyramid,triangle ,reverse triangle,)

Anagrams

Matrix problems like (Transpose of a matrix)

Array(list)-Based Questions :

Easy

1. Find the Largest Element in an Array

[3, 1, 4, 1, 5, 9] → 9

- Given an array of numbers, write a function to return the largest number.

2. Find the Second Largest Element

[3, 1, 4, 1, 5, 9] → 5

- Write a function to return the second largest number in an array.

3. Sum of All Elements

[1, 2, 3, 4] → 10

- Write a function that returns the sum of all elements in an array.

4. Remove Duplicates from an Array

[1, 2, 2, 3, 4, 4, 5] → [1, 2, 3, 4, 5]

- Write a function to remove duplicate values from an array.

5. Check if Array is Sorted

[1, 2, 3, 4, 5] → true

- Write a function to check if an array is sorted in ascending order.

6. Reverse an Array

[1, 2, 3, 4, 5] → [5, 4, 3, 2, 1]

- Write a function to reverse the elements in an array.

7. Remove Falsy Values

[0, 1, false, 2, "", 3] → [1, 2, 3]

- Write a function that removes all falsy values (`false`, `0`, `""`, `null`, `undefined`, `NaN`) from an array.

8. Find Unique Elements

[1, 2, 2, 3, 4, 4, 5] → [1, 3, 5]

- Write a function to find the unique elements in an array (elements that appear only once).

9. Sum of Even Numbers

[1, 2, 3, 4, 5] → 6

- Write a function that returns the sum of all even numbers in an array.

Medium 

10. Rotate an Array

[1, 2, 3, 4, 5], 2 → [4, 5, 1, 2, 3]

- Write a function that rotates an array to the right by a given number of steps.

11. Intersection of Two Arrays

[1, 2, 3], [2, 3, 4] → [2,3]

- Write a function that returns the common elements between two arrays.

12. Find Missing Number

[1, 2, 4, 5] → [3]

- Given an array of consecutive numbers with one missing, find the missing number.

13. Find the Maximum Product of Two Elements

[3, 5, -2, 8, 11] → 8*11 → 88

- Write a function to find the maximum product of two elements in an array.

14. Move Zeros to End

[0, 1, 0, 3, 12] → [1, 3, 12, 0, 0]

- Write a function that moves all zeros in an array to the end while maintaining the order of other elements.

15. Pair Sum

[2, 4, 3, 5, 7, 8, 9], 7 → [[4, 3], [2, 5]]

- Write a function to find all pairs in an array whose sum is equal to a given target.

16. Find Peak Element

[1, 3, 20, 4, 1, 0] → 20

- Write a function to find a peak element in an array. An element is a peak if it is not smaller than its neighbours.

17. Find the First Duplicate

[2, 1, 3, 5, 3, 2] → 3

- Write a function to return the first duplicate value in an array.

18. Flatten a Nested Array

[1, [2, [3, [4]], 5]] → [1, 2, 3, 4, 5]

- Write a function to flatten a nested array into a single array.

Hard

19. Group Anagrams

["eat", "tea", "tan", "ate", "nat", "bat"] → [["eat", "tea", "ate"], ["tan", "nat"], ["bat"]]

- Write a function to group anagrams from an array of strings.

20. Find the Longest Increasing Subsequence

[10, 9, 2, 5, 3, 7, 101, 18] → 4

- Write a function to find the length of the longest increasing subsequence in an array.

String-Based Questions :

Easy

21. Reverse a String

"hello" → "olleh"

- Write a function to reverse a given string.

22. Check if a String is a Palindrome

"racecar" → true

- Write a function to check if a given string is a palindrome.

23. Count Vowels in a String

"hello world" → **3**

- Write a function to count the number of vowels in a given string.

24. Remove Vowels from a String

"hello world" → **"hll wrld"**

- Write a function to remove all vowels from a given string.

25. Convert String to Title Case

"hello world" → **"Hello World"**

- Write a function that converts a string to title case (capitalize the first letter of each word).

26. Convert String to Number

"123" → **123**

- Write a function to convert a string to a number (without using `parseInt` or `Number`).

27. Check if String Contains Only Digits

"12345" → **true**

- Write a function to check if a string contains only numeric digits.

28. Count Occurrences of a Character

"hello world", "l" → **3**

- Write a function that counts the occurrences of a specific character in a string.

Medium

29. Find the Longest Word

"The quick brown fox jumps over the lazy dog" → **"jumps"**

- Write a function to find the longest word in a string.

30. Check for Anagrams

"listen", "silent" → **true**

- Write a function to check if two strings are anagrams of each other.

31. Find the First Non-Repeating Character

"swiss" → **'w'**

- Write a function to find the first non-repeating character in a string.

32. Check if String is a Valid Number

"**123.45**" → **true**

- Write a function to check if a string is a valid number.

33. Check if a String is a Rotation of Another String

"**abcde**", "**cdeab**" → **true**

- Write a function to check if one string is a rotation of another string.

34. Reverse Words in a String

"**hello world**" → "**world hello**"

- Write a function to reverse the order of words in a given string.

35. String Compression

"**aabccccaaa**" → "**a2b1c5a3**"

- Write a function to perform basic string compression using the counts of repeated characters (e.g., **aabccccaaa** becomes **a2b1c5a3**).

Hard

36. Find All Permutations of a String

"**abc**" → ["**abc**", "**acb**", "**bac**", "**bca**", "**cab**", "**cba**"]

- Write a function to find all permutations of a given string.

37. Find the Longest Substring Without Repeating Characters

"**abcabcbb**" → **3**

- Write a function to find the length of the longest substring without repeating characters.

38. Convert Roman Numerals to Integer

"**MCMXCV**" → **1994**

- Write a function to convert a Roman numeral string to an integer.

39. Find the Longest Palindromic Substring

"**baabd**" → "**bab**"

- Write a function to find the longest palindromic substring in a given string.

40. Check if Two Strings are Isomorphic

"egg", "add" → true

- Write a function to check if two strings are isomorphic (each character in one string can be mapped to a character in the other string, preserving order).

Object(dictionaries)-Based Questions :

Easy

41. Convert Array to Object

[{"name": "Alice"}, {"age": 25}] → {name: "Alice", age: 25}

- Write a function that converts an array of key-value pairs into an object.

42. Merge Two Objects

{a: 1, b: 2}, {b: 3, c: 4} → {a: 1, b: 3, c: 4}

- Write a function that merges two objects, giving priority to the properties of the second object in case of conflict.

43. Count Object Properties

{a: 1, b: 2, c: 3} → 3

- Write a function that returns the number of properties in an object.

44. Get Object Keys

{a: 1, b: 2, c: 3} → ["a", "b", "c"]

- Write a function that returns an array of all the keys in an object.

45. Get Object Values

{a: 1, b: 2, c: 3} → [1, 2, 3]

- Write a function that returns an array of all the values in an object.

46. Check if Object is Empty

{ } → true

- Write a function to check if an object is empty (i.e., has no properties).

Medium

47. Deep Clone an Object

{a: 1, b: {c: 2}} → {a: 1, b: {c: 2}}

- Write a function to create a deep clone of an object.

48. Check if Two Objects are Equal

{a: 1, b: 2}, {a: 1, b: 2} → true

- Write a function to check if two objects are equal (deep comparison).

49. Find Common Keys in Two Objects

{a: 1, b: 2}, {b: 3, c: 4} → ["b"]

- Write a function to find the common keys in two objects.

50. Sum of Values by Key

[{a: 1}, {a: 2}, {a: 3}], "a" → 6

- Write a function that sums the values of a specific key across an array of objects.

Hard

51. Group Objects by a Property

[{name: "Alice", age: 25}, {name: "Bob", age: 30}, {name: "Alice", age: 28}], "name" → {Alice: [{name: "Alice", age: 25}, {name: "Alice", age: 28}], Bob: [{name: "Bob", age: 30}]}

- Write a function that groups an array of objects by a specific property.

52. Convert Object to Query String

{name: "Alice", age: 25} → "name=Alice&age=25"

- Write a function to convert an object into a query string format (e.g., `{name: "Alice", age: 25}` should become `name=Alice&age=25`).

53. Find the Deepest Property in an Object

{a: {b: {c: 1}}} → ".a.b.c"

- Write a function to find the deepest (nested) property in an object.

54. Convert Nested Object to Flat Object

{a: {b: {c: 1}}} → {"a.b.c": 1}

- Write a function to convert a nested object into a flat object.

55. Create a Lookup Table from an Array of Objects

[{id: 1, name: "Alice"}, {id: 2, name: "Bob"}], "id" → {1: {id: 1, name: "Alice"}, 2: {id: 2, name: "Bob"}}

- Write a function that creates a lookup table (object) from an array of objects, using a specific key as the lookup key.

Other Fundamental JavaScript Questions :

56. Implement a Basic Calculator

2, 3, '+' → 5

- Write a function that takes two numbers and an operator (+, -, *, /) and returns the result.

57. FizzBuzz

- Write a program that prints the numbers from 1 to 100. For **multiples of three, print "Fizz"** instead of the number, and for **multiples of five, print "Buzz"**. For numbers that are **multiples of both three and five, print "FizzBuzz"**.

58. Generate Fibonacci Sequence

Example: fibonacci(5) -> [0, 1, 1, 2, 3]

- Write a function that generates the first n numbers in the Fibonacci sequence.

59. Sum of Digits

123 → 6

- Write a function that takes a number and returns the sum of its digits.

60. Binary Search Algorithm

[1, 2, 3, 4, 5], 3 → 2

- Write a function to perform binary search on a sorted array.

61. Check for Armstrong Number

153 → true

- Question: Write a function to check if a number is an Armstrong number (e.g., 153 is an Armstrong number because $1^3 + 5^3 + 3^3 = 153$).

62. Check for Balanced Parentheses

Example:"{}"→ true

- Question: Write a function to check if a string of parentheses is balanced.

63. Check for Balanced Parentheses

Example:"{}"→ true

- Question: Write a function to check if a string of parentheses is balanced.

64. sorting algorithms(bubble,selection,insertion,merge,quick), searching algorithms(linear search ,binary search)



#javascript Most frequently asked 21 programs in javascript interviews

1. Program to find longest word in a given sentence ?
2. How to check whether a string is palindrome or not ?
3. Write a program to remove duplicates from an array ?
4. Program to find Reverse of a string without using built-in method ?
5. Find the max count of consecutive 1's in an array ?
6. Find the factorial of given number ?
7. Given 2 arrays that are sorted [0,3,4,31] and [4,6,30]. Merge them and sort [0,3,4,4,6,30,31] ?
8. Create a function which will accept two arrays arr1 and arr2. The function should return true if every value in arr1 has its corresponding value squared in array2. The frequency of values must be same.
9. Given two strings. Find if one string can be formed by rearranging the letters of other string.
10. Write logic to get unique objects from below array ?
I/P: [{name: "sai"}, {name: "Nang"}, {name: "sa"}, {name: "Nang"}, {name: "111111"}];
O/P: [{name: "sai"}, {name: "Nang"}, {name: "111111"}]
11. Write a JavaScript program to find the maximum number in an array.
12. Write a JavaScript function that takes an array of numbers and returns a new array with only the even numbers.
13. Write a JavaScript function to check if a given number is prime.
14. Write a JavaScript program to find the largest element in a nested array.
[[3, 4, 58], [709, 8, 9, [10, 11]], [111, 2]]
15. Write a JavaScript function that returns the Fibonacci sequence up to a given number of terms.
16. Given a string, write a javascript function to count the occurrences of each character in the string.
17. Write a javascript function that sorts an array of numbers in ascending order.
18. Write a javascript function that sorts an array of numbers in descending order.
19. Write a javascript function that reverses the order of words in a sentence without using the built-in reverse() method.
20. Implement a javascript function that flattens a nested array into a single-dimensional array.
21. Write a function which converts string input into an object
(“a.b.c”, “someValue”);
(a: {b: {c: “someValue”}})

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