

ChatGPT 88 Explore GPTs Today Array Problems Summary

Merge Intervals Example

Fast and Slow Pointers

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Matrix Pattern Problems

Two Pointers Problems

Matrix Traversal Problems

Sliding Window Patterns

SQL Window Functions Explaine

ACID Properties Explained

New chat

array based top 15 problem commonly asked in interview questions. give input and output of the problem.

list 5 easy, 5 medium, 5 hard difficulty problems.



Certainly! Here's a list of 15 common array-based problems categorized by difficulty, along with example inputs and outputs.

Easy Problems

1. Find the Maximum Element

- · Problem: Given an array of integers, find the maximum element.
- Input: `[1, 3, 5, 2, 4]`
- Output: `5`



Get citation

2. Find the Minimum Element

- Problem: Given an array of integers, find the minimum element.
- Input: `[7, 2, 8, 4, 1]`
- Output: `1`

3. Check if Array Contains Duplicate

- · Problem: Given an array of integers, check if there are any duplicates.
- Input: `[1, 2, 3, 4, 1]`
- Output: `True`

4. Reverse an Array

- · Problem: Reverse the elements of an array in place.
- Input: `[1, 2, 3, 4, 5]`
- Output: `[5, 4, 3, 2, 1]`

5. Find the Average of Array Elements ψ



- Problem: Compute the average of all elements in the array.
- Input: `[10, 20, 30, 40]`
- Output: `25.0`

Medium Problems

1. Two Sum

- . Problem: Given an array of integers and a target value, return indices of the two numbers such that they add up to the target.
- Input: `array = [2, 7, 11, 15], target = 9`
- Output: `[0, 1]`

2. Rotate Array

- Problem: Rotate an array to the right by `k` steps.
- Input: `array = [1, 2, 3, 4, 5, 6, 7], k = 3`
- Output: `[5, 6, 7, 1, 2, 3, 4] _

3. Find the Missing Number

- Problem: Given an array containing `n` distinct numbers taken from `0, 1, 2, ..., n`, find the one that is missing.
- Input: `[3, 0, 1]`
- Output: `2`

4. Move Zeroes

- . Problem: Move all zeroes in an array to the end while maintaining the order of non-zero elements.
- Input: `[0, 1, 0, 3, 12]`
- Output: `[1, 3, 12, 0, 0]`

5. Find Duplicates in Array

- Problem: Find all duplicates in an array.
- Input: `[4, 3, 2, 7, 8, 2, 3, 1]`.
- Output: `[2, 3]`

Hard Problems

1. Longest Consecutive Sequence

- · Problem: Find the length of the longest consecutive elements sequence.
- Input: `[100, 4, 200, 1, 3, 2]`
- Output: `4`

2. Container With Most Water

- · Problem: Given an array representing the heights of bars, find the container that holds the most water.
- Input: `[1, 8, 6, 2, 5, 4, 8, 3, 7]`
- Output: `49`

3. Product of Array Except Self

- Problem: Given an array `nums`, re ↓ n an array `output` where `output[i]` is the product of all elements of `nums` except `nums[i]`.
- Input: `[1, 2, 3, 4]`
- Output: `[24, 12, 8, 6]`

4. Subarray Sum Equals K

- Problem: Given an array of integers and an integer `k`, find the total number of continuous subarrays whose sum equals `k`.
- Input: `array = [1, 1, 1], k = 2`
- Output: `2`

5. Median of Two Sorted Arrays

- Problem: Given two sorted arrays, find the median of the two sorted arrays.
- Input: `nums1 = [1, 3], nums2 = [2]`
- Output: `2.0`

These problems span a range of difficulty levels and cover a broad spectrum of common array manipulations and algorithms.

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