



# Top 37 Coding Questions to Ace Tech Interviews

to Ace **Tech** Interviews



## 1 Median of Two Sorted Arrays

**Problem:** Find the median of two sorted arrays



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## 2 Longest Palindromic Substring

**Problem:** Find the longest palindromic substring in a given string



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## 3 Container With Most Water

**Problem:** Given  $n$  non-negative integers representing the heights, find two lines that form a container to hold the most water



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## 4 Two Sum

**Problem:** Given an array of integers nums and an integer target return indices of the two numbers such that they add up to the target



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## 5 Add Two Numbers

**Problem:** Add two non-empty linked lists representing two non-negative integers



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## 6 Longest Unique Substring

**Problem:** Add two non-empty linked lists representing two non-negative integers



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## 7 Search in Rotated Sorted Array

**Problem:** Search for a target value in a rotated sorted array



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## 8 Combination Sum

**Problem:** Find all unique combinations of candidates where the chosen numbers sum to the target



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## 9 Permutations

**Problem:** Return all possible permutations of a collection of numbers



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## 10 Merge Two Sorted Lists

**Problem:** Merge two sorted linked lists into one sorted list



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## 11 Best Time to Buy and Sell Stock

**Problem:** Find the maximum profit by choosing a single day to buy one stock and a different day to sell



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## 12 Valid Parentheses

**Problem:** Determine if the input string of parentheses is valid



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## 13 Coin Change

**Problem:** Find the minimum number of coins needed to make a certain amount



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## 14 Longest Increasing Subsequence

**Problem:** Find the length of the longest strictly increasing subsequence



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## 15 Binary Tree Inorder Traversal

**Problem:** Perform in order traversal on a binary tree



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## 16 Subsets

**Problem:** Return all possible subsets of a given array



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## 17 Word Search

**Problem:** Find if a word exists in a grid following specific rules



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## 18 Climbing Stairs

**Problem:** Calculate the number of distinct ways to reach the top of a staircase with `n` steps.



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## 19 Binary Tree Level Order Traversal

**Problem:** Return level-order traversal of a binary tree



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## 20 Serialize and Deserialize Binary Tree

**Problem:** Convert a binary tree into a serialized string and vice versa



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## 21 Lowest Common Ancestor of Binary Tree

**Problem:** Find the lowest common ancestor of two nodes in a binary tree



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## 22 Maximum Depth of Binary Tree

**Problem:** Find the maximum depth of a binary tree



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## 23 Validate Binary Search Tree

**Problem:** Determine if a binary tree is a valid binary search tree



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## 24 Kth Smallest Element in a BST

**Problem:** Find the kth smallest element in a binary search tree



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## 25 Insert Interval

**Problem:** Insert a new interval into a list of non-overlapping intervals



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## 26 Non-overlapping Intervals

**Problem:** Find the minimum number of intervals to remove to make the rest of the intervals non-overlapping



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## 27 Search a 2D Matrix

**Problem:** Search for a target value in an  $m \times n$  matrix



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## 28 Product of Array Except Self

**Problem:** Return an array `answer` where `answer[i]` is the product of all elements of the array except `nums[i]`



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## 29 Maximum Subarray

**Problem:** Find the contiguous subarray with the maximum sum



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## 30 Merge Intervals

**Problem:** Merge overlapping intervals



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## 31 Sliding Window Maximum

**Problem:** Find the maximum in each sliding window of size `k`



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## 32 Top K Frequent Elements

**Problem:** Find the k most frequent elements in an array



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## 33 Number of Islands

**Problem:** Count the number of islands in a grid



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## 34 Word Search II

**Problem:** Find all words on the board



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## 35 Course Schedule

**Problem:** Determine if you can finish all courses given the prerequisites



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## 36 Implement Trie (Prefix Tree)

**Problem:** Implement a trie with `insert`, `search`, and `startsWith` functions



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## 37 Palindrome Partitioning

**Problem:** Partition a string such that every substring is a palindrome



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