

# Practice For Cracking Any Coding Interview - GeeksforGeeks

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Courses Tutorials Practice Jobs DSA Practice Problems C C++ Java Python JavaScript Data Science Machine Learning Courses Linux DevOps Technical Scripter 2026 Explore DSA Tutorial System Design Tutorial Aptitude Questions and Answers Web Development Technologies AI, ML and Data Science Tutorial DevOps Tutorial DSA to System Design 90% Refund Practice For Cracking Any Coding Interview Last Updated : 6 Dec, 2025 Here are the coding questions that you must practice to increase your chances of success in interviews. These questions are categorized by different topics for better preparation.

Mathematical Problems Print the pattern (You only need to write the function here)  
Print table Series AP Series GP Closest Number Armstrong Numbers Sum of digits of a number Reverse digits Print the Kth Digit Binary number to decimal number Jumping Numbers GCD of two numbers LCM of two numbers Add two fractions GCD of array Factorial of a number Compute nPr Compute nCr Largest prime factor Perfect Numbers Pair cube count Find Nth root of M Prime Number Sieve of Eratosthenes Sum of all prime numbers between 1 and N . Pairs of prime numbers Related Learning Resources: Mathematical Algorithms and Number Theory Puzzles Problems Count Squares 3 Divisors Check if four points form a square Check for power Overlapping rectangles Trailing zeroes in factorial Angle between hour and minute hand Number Of Open Doors Triangular Numbers Nth Even Fibonacci Number Last two digit Fibonacci Squares in a Matrix Day of the week Related Learning Resources: Puzzles Arrays Problems Array operations (Search, insert, delete) Array alternate printing Maximum and minimum in an array Second largest in array Sum of array elements Reverse an Array Rotate Array Count of smaller elements Remove duplicate elements from sorted Array Count possible triangles Leaders in an array Minimum distance between two numbers Sorted subsequence of size 3 Maximum Sub Array Majority Element Wave Array Maximum Index Max sum path in two arrays Product array puzzle Find duplicates in a small ranged array Find Missing And Repeating Stock buy and sell Trapping Rain Water Pair with given sum in a sorted array Chocolate Distribution Problem Longest Consecutive subsequence Three way partitioning Related Learning Resources: Array Data Structure String Problems Check for palindrome Check for anagram Anagram Palindrome Title case conversion Sort the string Merge two strings Save Ironman Good or Bad string Extract Maximum Reverse words in a given string Implement strstr Check for subsequence Check for rotation Check if two strings are k-anagrams Uncommon characters Anagram Search First repeating character First non-repeating character Longest Distinct characters in string Longest Palindromic Substring Find k-th character in string Smallest window with all characters Add Binary Strings Multiply two Strings Nearest multiple of 10 Related Learning Resources: String Data Structure Searching Problems Linear Search Facing the sun Magnet Array Problem Binary Search Floor in a Sorted Array Count occurrences in a sorted array Search in a sorted and rotated Find the missing number Missing element of AP Square root of a number Transition Point in a Sorted Binary Array Last index of One Peak element Allocate minimum number of pages Common elements in three sorted Smallest Positive missing number Related Learning Resources : Searching Algorithms Sorting Problems Check if array is sorted Sort a binary array Sort an array of 0s, 1s and 2s Bubble Sort Insertion Sort Selection Sort Quick Sort Merge Sort Sort an array when two halves are sorted Relative Sorting Triplet Sum in Array Minimum Swaps to Sort Sorting elements by frequency Triplet Family Count the triplets Related Learning Resources: Sorting Algorithms Hashing Problems Count distinct elements Array Subset of another array Nuts and Bolts Problem Count frequencies of elements Check if two arrays are equal or not First element to occur k times In First But Second Non-Repeating Element Group Anagrams Together Winner of an election Check for a pair with given sum Count distinct pairs with difference k Count pairs with given sum Find all four sum numbers A Simple Fraction Largest Fibonacci Subsequence Related Learning Resources: Hashing Data Structure Matrix Problems Transpose of Matrix Print Matrix in snake Pattern Print a given matrix in spiral form Is Sudoku Valid Count zeros in a sorted matrix Squares in a Matrix A Boolean Matrix Question Search in row-wise and column-wise sorted Find the row with maximum number of 1s Count pairs Sum in matrices Median In a Row-Wise sorted Matrix Related Learning Resources: Matrix Data Structure Recursion Print Pattern Handshakes Tower of Hanoi Josephus

problem Recursively remove all adjacent duplicates Possible words from Phone digits Flood fill Algorithm Permutations of a string Related Learning Resources : Recursion Divide & Conquer Problems Write your own power function Program for n-th Fibonacci Number K-th element of two sorted Arrays Median of two sorted arrays Karatsuba Algorithm The Painter's Partition Problem Convex Hull Counting inversions Related Learning Resources: Divide and Conquer Algorithms Linked List Problems Print a Linked List Length of a linked list Node at a given index in linked list Middle of a linked list n-th node from end of a linked list Delete a node Remove every k'th node Delete N nodes after M nodes of a linked list Delete without head pointer Rearrange a linked list Segregate even and odd (Using only one traversal) Reorder List Polynomial Addition Insert in a Sorted List Swap nodes in pairs Reverse a linked list Reverse a Linked List in groups of given size. Check for palindrome Flattening a linked list Get intersection point Remove duplicates from sorted list Remove duplicates from unsorted lists Sort a linked list of 0s, 1s and 2s. Circular Linked List Detect loop in a linked list Find length of Loop Remove loop in a linked list Add two numbers represented by linked lists Clone a linked list with random pointers Add 1 to a number represented as linked list Add two numbers represented as linked list Multiply two linked lists Merge two sorted linked lists Merge Sort on Linked List Intersection of Two Linked Lists Union of Two Linked Lists Related Learning Resources: Linked List Data Structure Doubly and Circular Linked Lists Problems Insert a node in Doubly linked list Delete node in Doubly Linked List Circular Linked List Traversal Split a Circular Linked List into two halves Insert in Sorted way in a Sorted DLL QuickSort on Doubly Linked List Merge Sort on Doubly Linked List Rotate doubly Linked List by P nodes XOR Linked List Related Learning Resources: Doubly Linked List Circular Linked List Stack Problems Implement Stack using Array Implement Stack using Linked List Check for balanced parenthesis Reverse a stack Implement two stacks in an array Design a stack with getMin The celebrity problem Stock Span Problem Next Greater Element Next Smaller Element Longest valid Parentheses Related Learning Resources: Stack Data Structure Queue and Dequeue Problems Implement Queue using Linked List Implement Queue using Array Implement Stack using Queue Implement Queue using Stack Reversing a Queue Circular tour First non-repeating character in a stream Related Learning Resources: Queue Data Structure Prefix Sum and Sliding Window Problems Equilibrium Point Check if there is a subarray with 0 sun Longest Sub-Array with Sum K Longest subarray with sum divisible by K Largest subarray with equal 1s and 0s Longest common span with same number of 1s and 0s among two arrays Find mximum sum in any subarray of size k Count distinct elements in every window of size k Check for subarray with given sum Related Learning Resources: Prefix Sum and Sliding Window Bit Magic Problems Check if a number is even or odd. Number of bit flips Game of XOR Find bit at a position Swap odd and even bits Power of 2 Odd occurring element Missing number in array Index Of an Extra Element Reverse Bits Count set bits Power Set Related Learning Resources: Bit Magic Tree Problems Inorder Traversal Preorder Traversal Postorder Traversal Level order traversal Find height of Binary Tree Count Leaves in Binary Tree Check for Children Sum Property Mirror Tree Check for Balanced Tree Lowest Common Ancestor in a Binary Tree Diameter of Binary Tree Left View of Binary Tree Right View of Binary Tree Maximum path sum Level order traversal line by line Tree from Postorder and Inorder Tree from Preorder and Inorder Connect Nodes at Same Level Zig-Zag level order traversal Serialize and Deserialize a Binary Tree Leaves to DLL Binary Tree to Doubly Linked List Binary Tree to Circular Doubly Linked List Related Learning Resources: Tree Data Structure Binary Search Tree Problems BST Search BST Insert BST Delete Minimum in BST Inorder Traversal and BST Count BST nodes that lie in a given range Add all greater values Predecessor and Successor in BST Closest Neighbor in BST Lowest Common Ancestor in a BST Convert Level Order Traversal to BST Normal BST to Balanced BST Pair with given sum in BST Check for BST Correct BST with two nodes swapped Median of BST k-th smallest element in BST Unique BST's Array to BST Preorder Traversal and BST Preorder to Postorder Leaf nodes from preorder traversal Triplet with 0 sum in BST Merge two BST 's Largest BST Subtree Related Learning Resources: Binary Search Tree Heap Problems Binary Heap Operations Height of Heap Heap Sort Sort a Nearly Sorted Array K Largest Elements K-th largest element in a stream Median of stream Merge k sorted arrays Related Learning Resources: Heap Data Structure Graph Problems Print adjacency list Breadth First Search Depth First Search Find whether path exist Knight Walk Snake and Ladder Problem Bipartite Graph Detect Cycle in an undirected graph Detect Cycle in a directed graph Find first n numbers with given set of digits Rotten oranges Topological sort Shortest Source to Destination Path Transitive closure of a Graph Strongly Connected Components Related Learning Resources: Graph Data Structure Greedy Algorithms Problems Fractional Knapsack Largest number with given sum Activity Selection N meetings in one room Minimum Platforms Minimum number of Coins Job Sequencing Problem Minimize the heights Huffman

Coding Huffman Decoding Minimum Spanning Tree Dijkstra for Adjacency Matrix Related Learning Resources: Greedy Algorithms Dynamic Programming Problems Print first n Fibonacci Numbers. Count ways to reach the n'th stair Cutted Segments Kadane's Algorithm Stickler Thief Minimum number of jumps Total Decoding Messages Min Cost Path Coin Change Longest Common Subsequence Consecutive 1's not allowed Edit Distance Rod Cutting Water Overflow Maximum Tip Calculator Longest Increasing Subsequence Maximum sum increasing subsequence Max length chain 0 - 1 Knapsack Problem Interleaved string Longest Palindromic Subsequence Wildcard Pattern Matching Box Stacking Longest Bitonic subsequence Minimum sum partition Largest square formed in a matrix Word Break Matrix Chain Multiplication Special Keyboard Egg Dropping Puzzle Optimal Strategy for a Game Related Learning Resources: Dynamic Programming Backtracking Problems Rat Maze With Multiple Jumps Coins and Game Hamiltonian Path Solve the Sudoku Combination Sum - Part 2 Combination Sum Subsets Largest number in K swaps M-Coloring Problem Black and White Related Learning Resources: Backtracking Trie Problems Trie Search and Insert Trie Delete Unique rows in a binary matrix Count of distinct substrings Word Boggle Related Learning Resources: Trie Data Structure Practice Questions to Test Your Overall Learning Longest common prefix Implement Atoi Two numbers with sum closest to zero Smallest greater elements in whole array Max rectangle Find triplets with zero sum Counting elements in two arrays Merge K sorted linked lists Maximum Difference Circle of strings All possible Word Breaks Alien Dictionary Design a tiny URL or URL shortener Implement LRU Cache Comment Article Tags: Article Tags: Interview Prep GFG-Practice