

Technical Scripter

Internships @
GeeksforGeeks

Courses

Practice for Cracking Coding
Interview

Coding Practice

How to write an Interview
Experience?

Difficulty Levels

Basic

Easy

Medium

Hard

Expert

Popular Tags

Amazon, Microsoft, Dynamic
Programming, Samsung
Click here for more

Interview Preparation

Microsoft Topics for Interview Preparation

Easy Level

Medium Level

Hard Level

Easy Level

- Binary representation of a given number
- Find max in struct array
- Find if two rectangles overlap
- Calculate the difficulty of a sentence
- Check if a linked list is Circular Linked List
- Converting Decimal Number lying between 1 to 3999 to Roman Numerals
- Count distinct elements in every window of size k
- Count all possible paths from top left to bottom right of a mXn matrix
- Evaluate a boolean expression represented as string
- Find common elements in three sorted arrays
- Find the number closest to n and divisible by m
- Find position of the only set bit
- Find the Missing Number
- Inplace rotate square matrix by 90 degrees | Set 1
- k largest(or smallest) elements in an array | added Min Heap method
- Level Order Tree Traversal
- Merge Sort
- Run Length Encoding
- Sort all even numbers in ascending order and then sort all odd numbers in descending order
- Square root of an integer
- Stack Data Structure (Introduction and Program)
- URLify a given string (Replace spaces is %20)
- Find the middle of a given linked list in C and Java

Step by Step Preparation	<ul style="list-style-type: none"> • Write an Efficient Function to Convert a Binary Tree into its Mirror Tree
Company Preparation	<ul style="list-style-type: none"> • Write one line C function to find whether a no is power of two
Top Topics	<ul style="list-style-type: none"> • Write your own atoi()
Company Specific Practice	<ul style="list-style-type: none"> • Add two numbers represented by linked lists Set 1
Software Design Patterns	<ul style="list-style-type: none"> • Anagram Substring Search (Or Search for all permutations)
Placements Preparation Course	<ul style="list-style-type: none"> • Binary Search Tree Set 1 (Search and Insertion)
Interview Corner	<ul style="list-style-type: none"> • Boundary Traversal of binary tree
Recent Interview Experiences	<ul style="list-style-type: none"> • Breadth First Traversal or BFS for a Graph
GQ Home Page	<ul style="list-style-type: none"> • Check if binary representation of a number is palindrome
Quiz Corner	<ul style="list-style-type: none"> • Construct Tree from given Inorder and Preorder traversals
LMNs	<ul style="list-style-type: none"> • Convert a given tree to its Sum Tree
Practice Platform	
What's New ?	<ul style="list-style-type: none"> • Converting Roman Numerals to Decimal lying between 1 to 3999
Leaderboard !!	<ul style="list-style-type: none"> • Count Inversions in an array Set 1 (Using Merge Sort)
Topic-wise Practice	<ul style="list-style-type: none"> • Delete middle of linked list
Subjective Problems	<ul style="list-style-type: none"> • Design a stack that supports getMin() in O(1) time and O(1) extra space
Difficulty Level - School	<ul style="list-style-type: none"> • Diameter of a Binary Tree
Difficulty Level - Basic	<ul style="list-style-type: none"> • Dynamic Programming Set 10 (0-1 Knapsack Problem)
Difficulty Level - Easy	<ul style="list-style-type: none"> • Dynamic Programming Set 15 (Longest Bitonic Subsequence)
Difficulty Level - Medium	<ul style="list-style-type: none"> • Find all strings that match specific pattern in a dictionary
	<ul style="list-style-type: none"> • Find Excel column name from a given column number
	<ul style="list-style-type: none"> • Find the minimum element in a sorted and rotated array
	<ul style="list-style-type: none"> • Find next greater number with same set of digits
	<ul style="list-style-type: none"> • Find N'th item in a set formed by sum of two arrays
	<ul style="list-style-type: none"> • Find the element that appears once
	<ul style="list-style-type: none"> • Find the row with maximum number of 1s
	<ul style="list-style-type: none"> • Find the two non-repeating elements in an array of repeating elements
	<ul style="list-style-type: none"> • Function to check if a singly linked list is palindrome
	<ul style="list-style-type: none"> • Generate n-bit Gray Codes
	<ul style="list-style-type: none"> • Given only a pointer/reference to a node to be deleted in a singly lin
	<ul style="list-style-type: none"> • How to determine if a binary tree is height-balanced?

GeeksforGeeks

NOT
~~AN AD~~

JUST A
REMINDER

THAT
YOU NEED TO
LEARN DSA

Learn Now

Difficulty Level - Hard	<ul style="list-style-type: none"> Intersection of two Sorted Linked Lists
How to pick a difficulty level?	<ul style="list-style-type: none"> Length of the longest substring without repeating characters
Explore More...	<ul style="list-style-type: none"> Level order traversal in spiral form
Programming Languages	<ul style="list-style-type: none"> Lowest Common Ancestor in a Binary Tree Set 1 Lowest Common Ancestor in a Binary Search Tree. Majority Element
C	<ul style="list-style-type: none"> Maximum Product Subarray
C++	<ul style="list-style-type: none"> Maximum width of a binary tree
Java	<ul style="list-style-type: none"> Merge two sorted linked lists such that merged list is in reverse order Merge two sorted linked lists
Python	<ul style="list-style-type: none"> Microsoft Interview experience Set 100 (On Campus for Internship on IDC and IT) Minimum time required to rot all oranges
SQL	<ul style="list-style-type: none"> Mobile Numeric Keypad Problem
PHP	<ul style="list-style-type: none"> Number of buildings facing the sun
JavaScript	<ul style="list-style-type: none"> Pairwise swap elements of a given linked list Print a given matrix in spiral form Print a pattern without using any loop Print all Jumping Numbers smaller than or equal to a given value Print all subarrays with 0 sum Print BST keys in the given range Print level order traversal line by line Print nodes at k distance from root Print the string by ignoring alternate occurrences of any character
Important Quick Links	<ul style="list-style-type: none"> Program to add two binary strings Program to validate an IP address Implement Queue using Stacks Remove all duplicates from a given string Remove every k-th node of the linked list Reverse Level Order Traversal Reverse words in a given string Root to leaf path sum equal to a given number
School Programming	
Operating Systems	
DBMS	
Computer Networks	
Engineering Mathematics	
Design Patterns	
Common Interview Puzzles	
Web Technology	
G-Facts	

Most Popular Articles

Must Do Coding Questions for Companies like Amazon, Microsoft, Adobe, ...

Computer Graphics	<ul style="list-style-type: none"> • Search a Word in a 2D Grid of characters • Search an element in a sorted and rotated array • Sort a linked list of 0s, 1s and 2s • Sort an array of 0s, 1s and 2s • Sorted insert for circular linked list • Stock Buy Sell to Maximize Profit • The Celebrity Problem • Tree Isomorphism Problem • Two elements whose sum is closest to zero • Union and Intersection of two Linked Lists • Given an a • Write a function to reverse a linked list • Write Code to Determine if Two Trees are Identical 	Must Do Coding Questions Company-wise
Image Processing		Python Tutorial
Project Ideas		Top 10 Projects For Beginners To Practice HTML and CSS Skills
	<p>Medium Level</p> <ul style="list-style-type: none"> • A program to check if a binary tree is BST or not • Boggle Set 2 (Using Trie) • Check if a binary tree is subtree of another binary tree Set 2 • Dynamic Programming Set 33 (Find if a string is interleaved of two other stri • Clone a linked list with next and random pointer Set 2 • Combinational Sum • Connect nodes at same level • Construct Binary Tree from given Parent Array representation • Program to convert a given number to words • Count number of binary strings without consecutive 1's • Detect and Remove Loop in a Linked List • Detect Cycle in a Directed Graph • Dynamic Programming Set 22 (Box Stacking Problem) • Dynamic Programming Set 8 (Matrix Chain Multiplication) 	Defaultdict in Python

- Factorial of a large number
- Find the first circular tour that visits all petrol pumps
- Find all distinct subsets of a given set
- Find Excel column name from a given column number
- Find the first non-repeating character from a stream of characters
- Find four elements that sum to a given value | Set 2 ($O(n^2 \log n)$ Solution)
- Find next greater number with same set of digits
- Find the number of islands | Set 1 (Using DFS)
- Flattening a Linked List
- How to design a tiny URL or URL shortener?
- K'th Smallest/Largest Element in Unsorted Array | Set 2 (Expected Linear Time)
- Largest Rectangular Area in a Histogram | Set 2
- Largest Sum Contiguous Subarray
- Length of longest palindrome list in a linked list using $O(1)$ extra space
- Dynamic Programming | Set 29 (Longest Common Substring)
- Longest Even Length Substring such that Sum of First and Second Half is same
- Maximum size rectangle binary sub-matrix with all 1s
- Merge k sorted arrays | Set 1
- Merge two BSTs with limited extra space
- Minimum steps to reach a destination
- Multiply Large Numbers represented as Strings
- Placements | QA | Progressions
- Print all nodes that are at distance k from a leaf node
- Printing brackets in Matrix Chain Multiplication Problem
- Reverse a Linked List in groups of given size
- Sort an array according to the order defined by another array
- Topological Sorting
- Trapping Rain Water
- Validity of a given Tic-Tac-Toe board configuration
- Given an a

Most Visited Articles

Array of Vectors in C++ STL

Vector of Vectors in C++ STL with Examples

Django Tutorial

Perfect Sum Problem

Pandas Tutorial

- Write a function to get the intersection point of two Linked Lists.
- Write an Efficient Method to Check if a Number is Multiple of 3

Hard Level

- Backtracking | Set 7 (Sudoku)
- Dynamic Programming | Set 37 (Boolean Parenthesization Problem)
- Find Recurring Sequence in a Fraction
- Two nodes of a BST are swapped, correct the BST
- Implement a Phone Directory
- Implement LRU Cache
- Manacher's Algorithm - Linear Time Longest Palindromic Substring - Part 1
- Median in a stream of integers (running integers)
- Travelling Salesman Problem | Set 1 (Naive and Dynamic Programming)

Company Wise Coding Practice Topic Wise Coding Practice

Load Comments

GeeksforGeeks

A computer science portal for geeks

5th Floor, A-118,
Sector-136, Noida, Uttar Pradesh - 201305
feedback@geeksforgeeks.org

COMPANY

About Us
Careers
Privacy Policy
Contact Us

LEARN

Algorithms
Data Structures
Languages
CS Subjects
Video Tutorials

PRACTICE

Courses
Company-wise
Topic-wise
How to begin?

CONTRIBUTE

Write an Article
Write Interview Experience
Internships
Videos



@geeksforgeeks, Some rights reserved