

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

Amazon Topics for Interview Preparation

Easy Level

Medium Level

Hard Level

Easy Level

- How to check if given four points form a square
- Check if a string can be obtained by rotating another string 2 places
- Find the nearest smaller numbers on left side in an array
- Find if two rectangles overlap
- Pair with given product | Set 1 (Find if any pair exists)
- Position of rightmost set bit
- Print all possible strings that can be made by placing spaces
- Replace all '0' with '5' in an input Integer
- A Boolean Matrix Question
- Amazon Interview Experience | Set 315
- Array Rotation
- Program for array rotation
- Build Lowest Number by Removing n digits from a given number
- Calculate the angle between hour hand and minute hand
- Check if all bits of a number are set
- Check if a given Binary Tree is SumTree
- Check if a number can be expressed as x^y (x raised to power y)
- Check if two trees are Mirror
- Converting Decimal Number lying between 1 to 3999 to Roman Numerals
- Count 'd' digit positive integers with 0 as a digit
- Count number of bits to be flipped to convert A to B
- Count number of occurrences (or frequency) in a sorted array
- Count all possible groups of size 2 or 3 that have sum as multiple of 3

Step by Step Preparation	
Company Preparation	
Top Topics	
Company Specific Practice	
Software Design Patterns	
Placements Preparation Course	
Interview Corner	
Recent Interview Experiences	
GQ Home Page	
Quiz Corner	
LMNs	
Practice Platform	
What's New ?	<ul style="list-style-type: none"> Count all possible paths from top left to bottom right of a mXn matrix
Leaderboard !!	<ul style="list-style-type: none"> Count total set bits in all numbers from 1 to n Count triplets with sum smaller than a given value Count words that appear exactly two times in an array of words Dynamic Programming Set 30 (Dice Throw) Equilibrium index of an array Fill array with 1's using minimum iterations of filling neighbors Find a Fixed Point (Value equal to index) in a given array Find first and last occurrences of an element in a sorted array Find four elements that sum to a given value Set 1 (n^3 solution) Find the index of first 1 in a sorted array of 0's and 1's Find minimum difference between any two elements Count the number of possible triangles Find the Missing Number Find the Number Occurring Odd Number of Times Find two prime numbers with given sum Find uncommon characters of the two strings Given a binary tree, print all root-to-leaf paths An Interesting Method to Generate Binary Numbers from 1 to n k largest(or smallest) elements in an array added Min Heap method Level Order Tree Traversal Maximum sum such that no two elements are adjacent Mobile Numeric Keypad Problem Numbers having Unique (or Distinct) digits Position of rightmost set bit Print all nodes that don't have sibling Queue Set 2 (Linked List Implementation) Rearrange positive and negative numbers in O(n) time and O(1) extra space Remove characters from the first string which are present in the second string Remove minimum number of characters so that two strings become anagram
Topic-wise Practice	
Subjective Problems	
Difficulty Level - School	
Difficulty Level - Basic	
Difficulty Level - Easy	
Difficulty Level - Medium	

GeeksforGeeks

NOT
~~AN AD~~

JUST A
REMINDER

THAT
YOU NEED TO
LEARN DSA

Learn Now

Difficulty Level - Hard	<ul style="list-style-type: none"> • Replace all '0' with '5' in an input Integer
How to pick a difficulty level?	<ul style="list-style-type: none"> • Find a pair with maximum product in array of Integers
Explore More...	<ul style="list-style-type: none"> • Reverse an array upto a given position
Programming Languages	<ul style="list-style-type: none"> • Run Length Encoding • Square root of an integer • Tiling Problem
C	<ul style="list-style-type: none"> • Type of array and its maximum element
C++	<ul style="list-style-type: none"> • Find the middle of a given linked list in C and Java
Java	<ul style="list-style-type: none"> • Write a Program to Find the Maximum Depth or Height of a Tree
Python	<ul style="list-style-type: none"> • Write a program to print all permutations of a given string
SQL	<ul style="list-style-type: none"> • Write your own atoi()
PHP	<ul style="list-style-type: none"> • A Product Array Puzzle
JavaScript	<ul style="list-style-type: none"> • Add two numbers represented by linked lists Set 1
Important Quick Links	<ul style="list-style-type: none"> • Backtracking Set 1 (The Knight's tour problem) • Binary Search Tree Set 1 (Search and Insertion) • Binary Tree to Binary Search Tree Conversion • Boundary Traversal of binary tree • Breadth First Traversal or BFS for a Graph • Check for balanced parentheses in an expression • Check if a given array contains duplicate elements within k distance from each other • How to check if given four points form a square • Check if a given sequence of moves for a robot is circular or not • Extract Leaves of a Binary Tree in a Doubly Linked List • Convert a given tree to its Sum Tree • Convert array into Zig-Zag fashion • Converting Roman Numerals to Decimal lying between 1 to 3999 • Count maximum points on same line • Count number of ways to cover a distance • Count numbers with same first and last digits • Count ways to reach the n'th stair
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"> Count Inversions in an array Set 1 (Using Merge Sort) 	Must Do Coding Questions Company-wise
Image Processing	<ul style="list-style-type: none"> Delete N nodes after M nodes of a linked list 	
Project Ideas	<ul style="list-style-type: none"> Depth First Traversal or DFS for a Graph Design a stack that supports getMin() in O(1) time and O(1) extra space Diameter of a Binary Tree Difference between sums of odd level and even level nodes of a Binary Tree Dynamic Programming Set 10 (0-1 Knapsack Problem) Dynamic Programming Set 12 (Longest Palindromic Subsequence) Dynamic Programming Set 14 (Maximum Sum Increasing Subsequence) Dynamic Programming Set 17 (Palindrome Partitioning) Dynamic Programming Set 18 (Partition problem) For each element in 1st array count elements less than or equal to it in 2nd array Equilibrium index of an array Evaluation of Expression Tree Extract maximum numeric value from a given string Set 1 (General approach) Find a peak element Find a sorted subsequence of size 3 in linear time Find all strings that match specific pattern in a dictionary Find an equal point in a string of brackets Find Excel column name from a given column number Find four elements a, b, c and d in an array such that $a+b = c+d$ Find height of a special binary tree whose leaf nodes are connected Find index of an extra element present in one sorted array Find maximum level sum in Binary Tree Maximum product of a triplet (subsequence of size 3) in array Find the minimum element in a sorted and rotated array Find minimum number of coins that make a given value Find next greater number with same set of digits Find nth Magic Number Print all possible words from phone digits 	Python Tutorial
		Top 10 Projects For Beginners To Practice HTML and CSS Skills
		Defaultdict in Python

- [Pythagorean Triplet in an array](#)
- [Find the Rotation Count in Rotated Sorted array](#)
- [Find subarray with given sum | Set 1 \(Nonnegative Numbers\)](#)
- [Find the element before which all the elements are sm](#)
- [Find the element that appears once](#)
- [Find the largest subarray with 0 sum](#)
- [Find the maximum element in an array which is first increasing and then decre](#)
- [Find the maximum repeating number in O\(n\) time and O\(1\) extra space](#)
- [Find the row with maximum number of 1s](#)
- [Find the smallest positive number missing from an unsorted array | Set 1](#)
- [Find the smallest positive number missing from an unsorted array](#)
- [Find the smallest window in a string containing all characters of another strin](#)
- [Find top k \(or most frequent\) numbers in a stream](#)
- [Find the transition point in a binary array](#)
- [Find the two non-repeating elements in an array of repeating elements](#)
- [Find zeroes to be flipped so that number of consecutive 1's is maximized](#)
- [Floor in a Sorted Array](#)
- [Function to check if a singly linked list is palindrome](#)
- [Find Next Sparse Number](#)
- [Generate n-bit Gray Codes](#)
- [Given a string, find its first non-repeating character](#)
- [Given a binary string, count number of substrings that start and end with 1.](#)
- [Given only a pointer/reference to a node to be deleted in a singly lin](#)
- [Given two unsorted arrays, find all pairs whose sum is x](#)
- [Greedy Algorithms | Set 1 \(Activity Selection Problem\)](#)
- [Highest power of 2 less than or equal to given number](#)
- [How to determine if a binary tree is height-balanced?](#)
- [Sort a linked list that is sorted alternating ascending and descending orde](#)
- [Implement Stack using Queues](#)
- [Intersection of two Sorted Linked Lists](#)

Most Visited Articles

[Array of Vectors in C++ STL](#)

[Vector of Vectors in C++ STL with Examples](#)

[Django Tutorial](#)

[Perfect Sum Problem](#)

[Pandas Tutorial](#)

- Largest subarray with equal number of 0s and 1s
- Length of the longest substring without repeating characters
- Level order traversal in spiral form
- Longest consecutive sequence in Binary tree
- Look-and-Say Sequence
- Lowest Common Ancestor in a Binary Tree | Set 1
- Lowest Common Ancestor in a Binary Search Tree.
- Majority Element
- Maximize number of 0s by flipping a subarray
- Maximize value of $(arr[i] - i) - (arr[j] - j)$ in an array
- Maximum Product Subarray
- Maximum sum of $i \cdot arr[i]$ among all rotations of a given array
- Maximum sum of lengths of non-overlapping subarrays with k as the max element.
- Maximum Sum Path in Two Arrays
- Maximum sum such that no two elements are adjacent
- Median of two sorted arrays
- Merge two sorted linked lists
- Minimum sum of squares of character counts in a given string after removing k character
- Minimum time required to rot all oranges
- Modify contents of Linked List
- Move all zeroes to end of array
- Multiply two numbers represented by Linked Lists
- Next Greater Element
- Find n'th node from the end of a Linked List
- Program for n'th node from the end of a Linked List
- Number of buildings facing the sun
- Number of Groups of Sizes Two Or Three Divisible By 3
- Number of paths with exactly k coins
- Pairwise swap elements of a given linked list
- Print all Jumping Numbers smaller than or equal to a given value

- Print a Binary Tree in Vertical Order | Set 1
- Print Common Nodes in Two Binary Search Trees
- Print K'th element in spiral form of matrix
- Print Left View of a Binary Tree
- Print level order traversal line by line
- Print nodes at k distance from root
- Print all nodes in a binary tree having K leaves
- Print all possible strings that can be made by placing spaces
- Print Right View of a Binary Tree
- Print unique rows in a given boolean matrix
- Implement Queue using Stacks
- Rearrange a linked list such that all even and odd positioned nodes are together
- Rearrange characters in a string such that no two adjacent are same
- Remove every k-th node of the linked list
- Replace every element with the greatest element on right side
- Reverse Level Order Traversal
- Reverse words in a given string
- Root to leaf path sum equal to a given number
- Search an element in a sorted and rotated array
- Segregate even and odd nodes in a Linked List
- Serialize and Deserialize a Binary Tree
- Sliding Window Maximum (Maximum of all subarrays of size k)
- Sort a linked list of 0s, 1s and 2s
- Sort a stack using recursion
- Sort an array of 0s, 1s and 2s
- Sort linked list which is already sorted on absolute values
- Sorted Array to Balanced BST
- Sorted insert for circular linked list
- Stock Buy Sell to Maximize Profit
- Submatrix Sum Queries

- The Celebrity Problem
- Trapping Rain Water
- Tree Isomorphism Problem
- Two elements whose sum is closest to zero
- Unbounded Knapsack (Repetition of items allowed)
- Union and Intersection of two Linked Lists
- Write a program function to detect loop in a linked list
- Given an a
- Write an Efficient C Program to Reverse Bits of a Number
- Write Code to Determine if Two Trees are Identical
- XOR of all subarray XORs

Medium Level

- A program to check if a binary tree is BST or not
- Add all greater values to every node in a given BST
- Adding two polynomials using Linked List
- Backtracking | Set 6 (Hamiltonian Cycle)
- Backtracking | Set 7 (Sudoku)
- Backtracking | Set 2 (Rat in a Maze)
- Binary Heap
- Binary Search Tree | Set 2 (Delete)
- Boggle | Set 2 (Using Trie)
- Bottom View of a Binary Tree
- How to print maximum number of 'A' using given four keys
- Clone a Binary Tree with Random Pointers
- Clone a linked list with next and random pointer | Set 2
- Combinational Sum
- Connect n ropes with minimum cost
- Connect nodes at same level

- Construct Binary Tree from given Parent Array representation
- Construct a special tree from given preorder traversal
- Program to convert a given number to words
- Count of n digit numbers whose sum of digits equals to given sum
- Count Possible Decodings of a given Digit Sequence
- Count ways to reach the n'th stair
- Delete nodes which have a greater value on right side
- Delete all occurrences of a given key in a linked list
- Detect and Remove Loop in a Linked List
- Detect Cycle in a Directed Graph
- Detect cycle in an undirected graph
- Diagonal Traversal of Binary Tree
- Dynamic Programming | Set 11 (Egg Dropping Puzzle)
- Dynamic Programming | Set 20 (Maximum Length Chain of Pairs)
- Dynamic Programming | Set 22 (Box Stacking Problem)
- Dynamic Programming | Set 27 (Maximum sum rectangle in a 2D matrix)
- Dynamic Programming | Set 28 (Minimum insertions to form a palindrome)
- Dynamic Programming | Set 3 (Longest Increasing Subsequence)
- Dynamic Programming | Set 31 (Optimal Strategy for a Game)
- Dynamic Programming | Set 4 (Longest Common Subsequence)
- Dynamic Programming | Set 5 (Edit Distance)
- Find a pair with given sum in a Balanced BST
- Find the first circular tour that visits all petrol pumps
- Find a triplet that sum to a given value
- Find distance between two given keys of a Binary Tree
- Find all distinct subsets of a given set
- 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 if a given string can be represented from a substring by iterating the substring "n
- Find k-th smallest element in BST (Order Statistics in BST)

- Find length of the largest region in Boolean Matrix
- Find next greater number with same set of digits
- Find the number of islands | Set 1 (Using DFS)
- Find smallest range containing elements from k lists
- Find the largest BST subtree in a given Binary Tree | Set 1
- Find the largest BST subtree in a given Binary Tree
- Program to find amount of water in a given glass
- Find whether there is path between two cells in matrix
- Flattening a Linked List
- Form minimum number from given sequence
- Given a number, find the next smallest palindrome
- Given a binary string, count number of substrings that start and end with 1.
- Construct Complete Binary Tree from its Linked List Representation
- Greedy Algorithms | Set 3 (Huffman Coding)
- Greedy Algorithms | Set 5 (Prim's Minimum Spanning Tree (MST))
- How to print maximum number of A's using given four keys
- Inorder Successor in Binary Search Tree
- Inplace rotate square matrix by 90 degrees | Set 1
- Kth smallest element in a row-wise and column-wise sorted 2D array | Set 1
- Largest Rectangular Area in a Histogram | Set 2
- Largest Sum Contiguous Subarray
- Length of the longest substring without repeating characters
- Longest Consecutive Subsequence
- Maximum difference between node and its ancestor in Binary Tree
- Maximum size rectangle binary sub-matrix with all 1s
- Maximum size square sub-matrix with all 1s
- Merge K sorted linked lists
- Merge two BSTs with limited extra space
- Merge Overlapping Intervals
- Minimum number of jumps to reach end

- Minimum Number of Platforms Required for a Railway/Bus Station
- Minimum steps to reach a destination
- Non-crossing lines to connect points in a circle
- Number of non-negative integral solutions of $a + b + c = n$
- Number of subsequences of the form $a^i b^j c^k$
- Nuts & Bolts Problem (Lock & Key problem)
- Print extreme nodes of each level of Binary Tree in alternate order
- Print all k-sum paths in a binary tree
- Print leftmost and rightmost nodes of a Binary Tree
- Print Nodes in Top View of Binary Tree
- Printing brackets in Matrix Chain Multiplication Problem
- Rearrange characters in a string such that no two adjacent are same
- Remove minimum elements from either side such that $2 * \min$ becomes more than \max
- Segment Tree | Set 1 (Sum of given range)
- Smallest window that contains all characters of string itself
- Snake and Ladder Problem
- Sort an array according to the order defined by another array
- Sort an array in wave form
- Stepping Numbers
- Topological Sorting
- Total number of possible Binary Search Trees with n keys
- Trapping Rain Water
- Validity of a given Tic-Tac-Toe board configuration
- wildcard pattern matching
- Given an a
- 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

- AVL Tree | Set 1 (Insertion)

- AVL Tree | Set 2 (Deletion)
- Backtracking | Set 3 (N Queen Problem)
- Backtracking | Set 7 (Sudoku)
- Construct a Binary Tree from Postorder and Inorder
- Dynamic Programming | Set 37 (Boolean Parenthesization Problem)
- Find Recurring Sequence in a Fraction
- Find maximum of minimum for every window size in a given array
- Two nodes of a BST are swapped, correct the BST
- Given an array `arr[]`, find the maximum `j - i` such that `arr[j] > arr[i]`
- Arrange given numbers to form the biggest number | Set 1
- Arrange given numbers to form the biggest number
- Given a sorted dictionary of an alien language, find order of characters
- Implement LRU Cache
- Median in a stream of integers (running integers)
- Partition a set into two subsets such that the difference of subset sums is
- Rearrange a given linked list in-place.

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