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# Top 10 algorithms in Interview Questions

Difficulty Level : Medium • Last Updated : 2022-04-21

In this post “Top 10 coding problems of important topics with their solutions” are written. If you are preparing for a coding interview, going through these problems is a must.

## Topics :

1. [Graph](#)
2. [Linked List](#)
3. [Dynamic Programming](#)
4. [Sorting And Searching](#)
5. [Tree / Binary Search Tree](#)
6. [Number Theory](#)
7. [BIT Manipulation](#)
8. [String / Array](#)

## Graph

1. [Breadth First Search \(BFS\)](#)
2. [Depth First Search \(DFS\)](#)
3. [Shortest Path from source to all vertices \\*\\*Dijkstra\\*\\*](#)
4. [Shortest Path from every vertex to every other vertex \\*\\*Floyd Warshall\\*\\*](#)
5. [To detect cycle in a Graph \\*\\*Union Find\\*\\*](#)
6. [Minimum Spanning tree \\*\\*Prim\\*\\*](#)

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**Got It !**

9. [Boggle \(Find all possible words in a board of characters\)](#)

10. [Bridges in a Graph](#)

1. [Insertion of a node in Linked List \(On](#)

2. [Delete a given node in Linked List \(un](#)

3. [Compare two strings represented as l](#)

4. [Add Two Numbers Represented By Li](#)

5. [Merge A Linked List Into Another Link](#)

6. [Reverse A List In Groups Of Given Size](#)

7. [Union And Intersection Of 2 Linked Lists](#)

8. [Detect And Remove Loop In A Linked List](#)

9. [Merge Sort For Linked Lists](#)

10. [Select A Random Node from A Singly Linked List](#)



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## Dynamic Programming

1. [Longest Common Subsequence](#)

2. [Longest Increasing Subsequence](#)

3. [Edit Distance](#)

4. [Minimum Partition](#)

5. [Ways to Cover a Distance](#)

6. [Longest Path In Matrix](#)

7. [Subset Sum Problem](#)

8. [Optimal Strategy for a Game](#)

9. [0-1 Knapsack Problem](#)

10. [Boolean Parenthesization Problem](#)

## Sorting And Searching

1. [Binary Search](#)

2. [Search an element in a sorted and rotated array.](#)

3. [Bubble Sort](#)

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7. [Quick Sort](#)
8. [Interpolation Search](#)
9. [Find Kth Smallest/Largest Element In](#)
10. [Given a sorted array and a number x](#)

### Tree / Bi

1. [Find Minimum Depth of a Binary Tree](#)
2. [Maximum Path Sum in a Binary Tree](#)
3. [Check if a given array can represent F](#)
4. [Check whether a binary tree is a full b](#)
5. [Bottom View Binary Tree](#)
6. [Print Nodes in Top View of Binary Tree](#)
7. [Remove nodes on root to leaf paths of length < K](#)
8. [Lowest Common Ancestor in a Binary Search Tree](#)
9. [Check if a binary tree is subtree of another binary tree](#)
10. [Reverse alternate levels of a perfect binary tree](#)

### Number Theory

1. [Modular Exponentiation](#)
2. [Modular multiplicative inverse](#)
3. [Primality Test | Set 2 \(Fermat Method\)](#)
4. [Euler's Totient Function](#)
5. [Sieve of Eratosthenes](#)
6. [Convex Hull](#)
7. [Basic and Extended Euclidean algorithms](#)
8. [Segmented Sieve](#)
9. [Chinese remainder theorem](#)
10. [Lucas Theorem](#)

### BIT Manipulation

1. [Maximum Subarray XOR](#)



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5. [Find the element that appears once](#)
6. [Binary representation of a given num](#)
7. [Count total set bits in all numbers from](#)
8. [Rotate bits of a number](#)
9. [Count number of bits to be flipped to](#)
10. [Find Next Sparse Number](#)

St

1. [Reverse an array without affecting sp](#)
2. [All Possible Palindromic Partitions](#)
3. [Count triplets with sum smaller than a given value](#)
4. [Convert array into Zig-Zag fashion](#)
5. [Generate all possible sorted arrays from alternate elements of two given sorted arrays](#)
6. [Pythagorean Triplet in an array.](#)
7. [Length of the largest subarray with contiguous elements](#)
8. [Find the smallest positive integer value that cannot be represented as sum of any subset of a given array.](#)
9. [Smallest subarray with sum greater than a given value](#)
10. [Stock Buy Sell to Maximize Profit](#)


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## Master Coding

**Step 1:** Open  Practice

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## Breadth First Search or BFS for a Graph

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## Article Contributed By :



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Current difficulty : Medium

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