

# Favtutor

Data Structure	Question	Difficulty Level
Arrays and Matrices	Theory	Theory
Arrays and Matrices	<a href="#">Find the "Kth" max and min element of an array</a>	Easy
Arrays and Matrices	<a href="#">Given an array which consists of only 0, 1 and 2. Sort the array without using any sorting algo</a>	Easy
Arrays and Matrices	<a href="#">majority element</a>	Medium
Arrays and Matrices	<a href="#">Spiral traversal on a Matrix</a>	Medium
Arrays and Matrices	<a href="#">Squares of a sorted array</a>	Medium

String	Theory	Theory
String	<a href="#">Reverse a String</a>	Easy
String	<a href="#">Check whether a String is Palindrome or not</a>	Easy
String	<a href="#">Count and Say problem</a>	Easy
String	<a href="#">Write a program to find the longest Palindrome in a string.[ Longest palindromic Substring]</a>	Medium
String	<a href="#">Find Longest Recurring Subsequence in String</a>	Medium

Searching and Sorting	Theory	Theory
Searching and Sorting	<a href="#">Find first and last positions of an element in a sorted array</a>	Easy
Searching and Sorting	<a href="#">Find a Fixed Point (Value equal to index) in a given array</a>	Easy
Searching and Sorting	<a href="#">Search in a rotated sorted array</a>	Medium
Searching and Sorting	<a href="#">square root of an integer</a>	Medium
Searching and Sorting	<a href="#">Maximum and minimum of an array using minimum number of comparisons</a>	Medium
Searching and Sorting	<a href="#">find majority element</a>	Medium

LinkedList	Theory	Theory
LinkedList	<a href="#">Write a Program to reverse the Linked List. (Both Iterative and recursive)</a>	Easy
LinkedList	<a href="#">Reverse a Linked List in group of Given Size. [Very Imp]</a>	Easy
LinkedList	<a href="#">Write a program to Detect loop in a linked list.</a>	Medium
LinkedList	<a href="#">Write a program to Delete loop in a linked list.</a>	Medium
LinkedList	<a href="#">Find the starting point of the loop.</a>	Medium
LinkedList	<a href="#">Remove Duplicates in a sorted Linked List.</a>	Medium

Greedy	Theory	Theory
Greedy	<a href="#">Activity Selection Problem</a>	Easy
Greedy	<a href="#">Job Sequencing Problem</a>	Easy
Greedy	<a href="#">Huffman Coding</a>	Easy
Greedy	<a href="#">Water Connection Problem</a>	Medium
Greedy	<a href="#">Fractional Knapsack Problem</a>	Medium
Greedy	<a href="#">Greedy Algorithm to find Minimum number of Coins</a>	Medium

Recursion	Theory	Theory
Recursion	<a href="#">Rat in a maze Problem</a>	Easy
Recursion	<a href="#">Printing all solutions in N-Queen Problem</a>	Easy
Recursion	<a href="#">Word Break Problem using Backtracking</a>	Medium
Recursion	<a href="#">Remove Invalid Parentheses</a>	Medium
Recursion	<a href="#">Sudoku Solver</a>	Medium
Recursion	<a href="#">m Coloring Problem</a>	Medium

Binary Trees	Theory	Theory
Binary Trees	<a href="#">level order traversal</a>	Easy
Binary Trees	<a href="#">Reverse Level Order traversal</a>	Easy
Binary Trees	<a href="#">Height of a tree</a>	Easy
Binary Trees	<a href="#">Diameter of a tree</a>	Easy
Binary Trees	<a href="#">Mirror of a tree</a>	Medium

Binary Search Trees	Theory	
Binary Search Trees	<a href="#">Find a value in a BST</a>	Easy
Binary Search Trees	<a href="#">Deletion of a node in a BST</a>	Easy
Binary Search Trees	<a href="#">Find min and max value in a BST</a>	Easy
Binary Search Trees	<a href="#">Find inorder successor and inorder predecessor in a BST</a>	Medium
Binary Search Trees	<a href="#">Check if a tree is a BST or not</a>	Medium

Binary Search Trees	<a href="#">Populate Inorder successor of all nodes</a>	Medium
Stack and Queues	Theory	
Stack and Queues	<a href="#">Implement Stack from Scratch</a>	Easy
Stack and Queues	<a href="#">Implement Queue from Scratch</a>	Easy
Stack and Queues	<a href="#">Implement 2 stack in an array</a>	Easy
Stack and Queues	<a href="#">find the middle element of a stack</a>	Medium
Stack and Queues	<a href="#">Implement "N" stacks in an Array</a>	Medium
Stack and Queues	<a href="#">Check the expression has valid or Balanced parenthesis or not.</a>	Medium
Heap	Theory	
Heap	<a href="#">Implement a Maxheap/MinHeap using arrays and recursion.</a>	Easy
Heap	<a href="#">Sort an Array using heap. (HeapSort)</a>	Medium
Heap	<a href="#">Maximum of all subarrays of size k.</a>	Medium
Heap	<a href="#">"k" largest element in an array</a>	Medium
Heap	<a href="#">Kth smallest and largest element in an unsorted array</a>	Medium
Heap	<a href="#">Merge "K" sorted arrays. [ IMP ]</a>	Medium
Graph	Theory	
Graph	<a href="#">Create a Graph, print it</a>	Easy
Graph	<a href="#">Implement BFS algorithm.</a>	Easy
Graph	<a href="#">Implement DFS Algo</a>	Easy
Graph	<a href="#">Detect Cycle in Directed Graph using BFS/DFS Algo</a>	Medium
Graph	<a href="#">Detect Cycle in UnDirected Graph using BFS/DFS Algo</a>	Medium
Graph	<a href="#">Search in a Maze</a>	Medium