Easy	Ideal Time : 5-10 mins
Medium	Ideal Time : 15-20 mins
Hard	Ideal Time : 40-60 mins (based on Qs) | 88 Qs

Topics	Question (375)
Arrays	Maximum and Minimum Element in an Array
Arrays	Reverse the Array
Arrays	Maximum-Subarray
Arrays	Contains Duplicate
Arrays	Chocolate Distribution Problem
Arrays	Search in Rotated Sorted Array
Arrays	Next Permutation
Arrays	Best time to Buy and Sell Stock
Arrays	Repeat and Missing Number Array
Arrays	Kth-Largest Element in an Array
Arrays	Trapping Rain Water
Arrays	Product of Array Except Self
Arrays	Maximum Product Subarray
Arrays	Find Minimum in Rotated Sorted Array
Arrays	Find Pair with Sum in Sorted & Rotated Array
Arrays	3Sum
Arrays	Container With Most Water
Arrays	Given Sum Pair
Arrays	Kth - Smallest Element
Arrays	Merge Overlapping Intervals
Arrays	Find Minimum Number of Merge Operations to Make an Array Palindrome
Arrays	Given an Array of Numbers Arrange the Numbers to Form the Biggest Number
Arrays	Space Optimization Using Bit Manipulations
Arrays	Subarray Sum Divisible K
Arrays	Print all Possible Combinations of r Elements in a Given Array of Size n
Arrays	Mo's Algorithm

Strings	Valid Palindrome
Strings	Valid Anagram
Strings	Valid parentheses
Strings	Remove Consecutive Characters
Strings	Longest Common Prefix
Strings	Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence
Strings	Print all the Duplicates in the Input String
Strings	Longest Substring without Repeating Characters
Strings	Longest Repeating Character Replacement
Strings	Group Anagrams
Strings	Longest Palindromic Substring
Strings	Palindromic Substrings
Strings	Next Permutation
Strings	Count Palindromic Subsequences
Strings	Smallest Window in a String Containing all the Characters of Another String
Strings	Wildcard String Matching
Strings	Longest Prefix Suffix
Strings	Rabin-Karp Algorithm for Pattern Searching
Strings	Transform One String to Another using Minimum Number of Given Operation

Strings	[Minimum Window Substring](#)
Strings	[Boyer Moore Algorithm for Pattern Searching](#)
Strings	[Word Wrap](#)

2D Arrays	[Zigzag (or diagonal) Traversal of Matrix](#)
2D Arrays	[Set Matrix Zeroes](#)
2D Arrays	[Spiral Matrix](#)
2D Arrays	[Rotate Image](#)
2D Arrays	[Word Search](#)
2D Arrays	[Find the Number of Islands	Set 1 (Using DFS)](#)
2D Arrays	[Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'](#)
2D Arrays	[Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix](#)
2D Arrays	[Create a Matrix with Alternating Rectangles of O and X](#)
2D Arrays	[Maximum Size Rectangle of all 1s](#)

Searching & Sorting	[Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K](#)
Searching & Sorting	[counting sort](#)
Searching & Sorting	[find common elements three sorted arrays](#)
Searching & Sorting	[Searching in an array where adjacent differ by at most k](#)
Searching & Sorting	[ceiling in a sorted array](#)
Searching & Sorting	[Piar with given difference](#)
Searching & Sorting	[majority element](#)
Searching & Sorting	[count triplets with sum smaller that a given value](#)
Searching & Sorting	[Maximum Sum Subsequence with no adjacent elements](#)
Searching & Sorting	[Merge Sorted Arrays using O(1) Space](#)
Searching & Sorting	[Inversion of Array](#)
Searching & Sorting	[Find Duplicates in O(n) Time and O(1) Extra Space](#)
Searching & Sorting	[Radix Sort](#)
Searching & Sorting	[Product of Array except itself](#)
Searching & Sorting	[Make all Array Elements Equal](#)
Searching & Sorting	[Check if Reversing a Sub Array Make the Array Sorted](#)
Searching & Sorting	[Find Four Elements that Sum to a Given Value](#)
Searching & Sorting	[Median of Two Sorted Array with Different Size](#)
Searching & Sorting	[Median of Stream of Integers Running Integers](#)
Searching & Sorting	[Print Subarrays with 0 Sum](#)
Searching & Sorting	[Aggressive Cows](#)
Searching & Sorting	[Allocate Minimum number of Pages](#)
Searching & Sorting	[Minimum Swaps to Sort](#)

Backtracking	[Backtracking Set 2 Rat in a Maze](#)
Backtracking	[Combinational Sum](#)
Backtracking	[Crossword-Puzzle](#)
Backtracking	[Longest Possible Route in a Matrix with Hurdles](#)
Backtracking	[Printing all solutions in N-Queen Problem](#)
Backtracking	[Solve the Sudoku](#)
Backtracking	[Partition Equal Subset Sum](#)
Backtracking	[M Coloring Problem](#)
Backtracking	[Knight Tour](#)
Backtracking	[Soduko](#)
Backtracking	[Remove Invalid Parentheses](#)
Backtracking	[Word Break Problem using Backtracking](#)
Backtracking	[Print all Palindromic Partitions of a String](#)
Backtracking	[Find Shortest Safe Route in a Path with Landmines](#)
Backtracking	[Partition of Set into K Subsets with Equal Sum](#)
Backtracking	[Backtracking set-7 hamiltonian cycle](#)
Backtracking	[tug-of-war](#)

Backtracking	Maximum Possible Number by doing at most K swaps
Backtracking	Backtracking set-8 solving cryptarithmetic puzzles
Backtracking	Find paths from corner cell to middle cell in maze
Backtracking	Arithmetic Expressions

Linked List	Reverse Linked List
Linked List	Linked List Cycle
Linked List	Merge Two Sorted Lists
Linked List	Delete without Head node
Linked List	Remove duplicates from an unsorted linked list
Linked List	Sort a linked list of 0s-1s-or-2s
Linked List	Multiply two numbers represented linked lists
Linked List	Remove nth node from end of list
Linked List	Reorder List
Linked List	Detect and remove loop in a linked list
Linked List	Write a Function to get the Intersection Point of two Linked Lists
Linked List	Flatten a linked list with next and child pointers
Linked List	Linked list in zig-zag fashion
Linked List	Reverse a doubly linked list
Linked List	Delete nodes which have a greater value on right side
Linked List	Segregate even and odd Elements in a Linked List
Linked List	Point to next higher value node in a linked list with an Arbitrary Pointer
Linked List	Rearrange a given linked list in place
Linked List	Sort Biotonic Doubly Linked Lists
Linked List	Merge K Sorted Lists
Linked List	Merge sort for linked list
Linked List	Quicksort on singly-linked list
Linked List	Sum of two linked lists
Linked List	Flattening a linked list
Linked List	Clone a linked list with next and random Pointer
Linked List	Subtract two numbers represented as linked lists

Stacks & Queues	Implement two stacks in an Array
Stacks & Queues	Evaluation of Postfix Expression
Stacks & Queues	Implement Stack using Queues
Stacks & Queues	Queue Reversal
Stacks & Queues	Implement Stack Queue using Deque
Stacks & Queues	Reverse first k elements of queue
Stacks & Queues	Design Stack with Middle Operation
Stacks & Queues	Infix to Postfix
Stacks & Queues	Design and Implement Special stack
Stacks & Queues	Longest Valid String
Stacks & Queues	Find if an expression has duplicate parenthesis or not
Stacks & Queues	Stack permutations check if an array is stack permutation of other
Stacks & Queues	Count natural numbers whose permutation greater number
Stacks & Queues	Sort a stack using Recursion
Stacks & Queues	Queue based approach for first non repeating character in a stream
Stacks & Queues	The Celebrity Problem
Stacks & Queues	Next larger Element
Stacks & Queues	Distance of nearest cell
Stacks & Queues	Rotten-oranges
Stacks & Queues	Next smaller element
Stacks & Queues	Circular-tour
Stacks & Queues	Efficiently implement k-stacks single array
Stacks & Queues	The celebrity problem
Stacks & Queues	Iterative tower of hanoi

Stacks & Queues	Find the maximum of minimums for every window size in a given array
Stacks & Queues	lru cache implementation
Stacks & Queues	Find a tour that visits all stations

Greedy	Activity selection problem greedy algo
Greedy	Greedy algorithm to find minimum number of coins
Greedy	Minimum sum two numbers formed digits array-2
Greedy	Minimum sum absolute difference pairs two arrays
Greedy	Find maximum height pyramid from the given array of objects
Greedy	Minimum cost for acquiring all coins with k extra coins allowed with every coin
Greedy	Find maximum equal sum of every three stacks
Greedy	Job sequencing problem
Greedy	Greedy algorithm egyptian fraction
Greedy	Fractional knapsack problem
Greedy	Maximum length chain of pairs
Greedy	Find smallest number with given number of digits and digit sum
Greedy	Maximize sum of consecutive differences circular-array
Greedy	paper-cut minimum number squares
Greedy	Lexicographically smallest array-k consecutive swaps
Greedy	Problems-CHOCOLA
Greedy	Find minimum time to finish all jobs with given constraints
Greedy	Job sequencing using disjoint set union
Greedy	Rearrange characters string such that no two adjacent are same
Greedy	Minimum edges to reverse to make path from a source to a destination
Greedy	Minimize Cash Flow among a given set of friends who have borrowed money from each other
Greedy	Minimum Cost to cut a board into squares

Binary Trees	Maximum Depth of Binary Tree
Binary Trees	Reverse Level Order Traversal
Binary Trees	Subtree of Another Tree
Binary Trees	Invert Binary Tree
Binary Trees	Binary Tree Level Order Traversal
Binary Trees	Left View of Binary Tree
Binary Trees	Right View of Binary Tree
Binary Trees	ZigZag Tree Traversal
Binary Trees	Create a mirror tree from the given binary tree
Binary Trees	Leaf at same level
Binary Trees	Check for Balanced Tree
Binary Trees	Transform to Sum Tree
Binary Trees	Check if Tree is Isomorphic
Binary Trees	Same Tree
Binary Trees	Construct Binary Tree from Preorder and Inorder Traversal
Binary Trees	Height of Binary Tree
Binary Trees	Diameter of a Binary Tree
Binary Trees	Top View of Binary Tree
Binary Trees	Bottom View of Binary Tree
Binary Trees	Diagonal Traversal of Binary Tree
Binary Trees	Boundary Traversal of binary tree
Binary Trees	Construct Binary Tree from String with Brackets
Binary Trees	Minimum swap required to convert binary tree to binary search tree
Binary Trees	Duplicate subtree in Binary Tree
Binary Trees	Check if a given graph is tree or not
Binary Trees	Lowest Common Ancestor in a Binary Tree
Binary Trees	Min distance between two given nodes of a Binary Tree
Binary Trees	Duplicate Subtrees
Binary Trees	Kth ancestor of a node in binary tree
Binary Trees	Binary Tree Maximum Path Sum

Graphs	DFS	
Graphs	Flood Fill Algorithm	
Graphs	Number of Triangles	
Graphs	Detect cycle in a graph	
Graphs	Detect cycle in an undirected graph	
Graphs	Rat in a Maze Problem	
Graphs	Steps by Knight	
Graphs	Clone graph	
Graphs	Number of Operations to Make Network Connected	
Graphs	Dijkstra's shortest path algorithm	
Graphs	Topological Sort	
Graphs	Oliver and the Game	
Graphs	Minimum time taken by each job to be completed given by a Directed Acyclic Graph	
Graphs	Find whether it is possible to finish all tasks or not from given dependencies	
Graphs	Find the number of islands	
Graphs	Prim's Algo	
Graphs	Negative Weighted Cycle	
Graphs	Floyd Warshall	
Graphs	Graph Coloring	
Graphs	Snakes and Ladders	
Graphs	Kosaraju's Theorem	
Graphs	Journey to moon	
Graphs	Vertex Cover	
Graphs	M Coloring Problem	
Graphs	Cheapest Flights Within K Stops	
Graphs	Find if there is a path of more than k length from a source	
Graphs	Bellman Ford	
Graphs	Bipartitie Graph	
Graphs	Word-Ladder	
Graphs	Allen Dictionary	
Graphs	Kruskals MST	
Graphs	Total number spanning trees graph	
Graphs	Travelling Salesman	
Graphs	Find longest path directed acyclic graph	
Graphs	Two Clique Problem	
Graphs	Minimise the cash flow	
Graphs	Chinese postman	
Graphs	Water Jug	
Graphs	Water Jug 2	
Tries	Construct a trie from scratch	
Tries	Print unique rows in a given boolean matrix	
Tries	Word Break Problem	(Trie solution)	
Tries	Given a sequence of words, print all anagrams together	
Tries	Find shortest unique prefix for every word in a given list	
Tries	Implement a Phone Directory	
DP	Knapsack with Duplicate Items	
DP	BBT counter	
DP	Reach a given score	
DP	Maximum difference of zeros and ones in binary string	
DP	Climbing Stairs	
DP	Permutation Coefficient	
DP	Longest Repeating Subsequence	
DP	Pairs with specific difference	
DP	Longest subsequence-1	
DP	Coin Change	

DP	LIS	
DP	Longest Common Subsequence	
DP	Word Break	
DP	Combination Sum IV	
DP	House Robber	
DP	Houe Robber 2	
DP	Decode Ways	
DP	Unique Paths	
DP	Jumps Game	
DP	Knapsack Problem	
DP	nCr	
DP	Catalan Number	
DP	Edit Distance	
DP	Subset Sum	
DP	Gold mine	
DP	Assembly Line Scheduling	
DP	Maximize The Cut Segments	
DP	Maximum sum increasing subsequence	
DP	Count all subsequences having product less than K	
DP	Maximum sum increasing subsequence	
DP	Egg dropping puzzle	
DP	Max length chain	
DP	Largest Square in Matrix	
DP	Maximum Path Sum	
DP	Minimum Number of Jumps	
DP	Minimum removals from array to make max – min <= K	
DP	Longest Common Substring	
DP	Partition Equal Subset Sum	
DP	Longest Palindromic Subsequnce	
DP	Count Palindromic Subsequences	
DP	Longest Palindromic Substring	
DP	Longest Alternating Sequence	
DP	Weighted Job Scheduling	
DP	Coin Game	
DP	Coin Game Winner	
DP	Optimal Strategy for a game	
DP	Word Wrap	
DP	Mobile numeric keypad	
DP	Maximum Length of Pair Chain	
DP	Matrix Chain Multiplication	
DP	Maximum profit by buying and selling a share at most twice	
DP	Optimal BST	
DP	Largest Submatrix with sum 0	
DP	Largest area rectangular sub-matrix with equal number of 1's and 0's	

Bit Manipulation	Count set bits in an integer
Bit Manipulation	Find the two non-repeating elements in an array of repeating elements
Bit Manipulation	Program to find whether a no is power of two
Bit Manipulation	Find position of the only set bit
Bit Manipulation	Count number of bits to be flipped to convert A to B
Bit Manipulation	Count total set bits in all numbers from 1 to n
Bit Manipulation	Copy set bits in a range
Bit Manipulation	Calculate square of a number without using *, / and pow()
Bit Manipulation	Divide two integers without using multiplication, division and mod operator
Bit Manipulation	Power Set

Segment Trees	Range Sum Query - Immutable

Segment Trees	Range Minimum Query
Segment Trees	Range Sum Query - Mutable
Segment Trees	Create Sorted Array through Instructions
Segment Trees	Count of Range Sum
Segment Trees	Count of Smaller Numbers After Self