	These are the questions we will be solving during our live sessions.
	This roadmap will be frequently updated, so make sure to keep checking it.
	COMPLETED: 0/440 (0.00%)
	1. Basics of programming
	Problem Statement	**Leetcode / GFG**
	1.1 Time and Space Complexity
Pending	Learn about Time and Space Complexity	NA
	1.2 Basic Maths Logic Buildup
Pending	Count Digits	*Count Digits | Practice | GeeksforGeeks*
Pending	Reverse a number	*Reverse Integer - LeetCode*
Pending	Check palindrome	*Palindrome Number - LeetCode*
Pending	GCD or HCF	*LCM And GCD | Practice | GeeksforGeeks*
Pending	Armstrong Number	*Armstrong Number - LeetCode*
Pending	Print all Divisors of a number	*Sum of all divisors from 1 to n | Practice | GeeksforGeeks*
Pending	Check Prime	*Minimum number of jumps | Practice | GeeksforGeeks*
	1.3 Recursion Basics
Pending	Print 1 to N without Loop	*Print 1 To N Without Loop | Practice | GeeksforGeeks*
Pending	Print N times with Recursion	*Print GFG n times | Practice | GeeksforGeeks*
Pending	Print N to 1 without Loop	*Print N to 1 without loop | Practice | GeeksforGeeks*
Pending	Sum of first N natural numbers without Loop	*Sum of first n terms | Practice | GeeksforGeeks*
Pending	Factorial of N numbers	*Find all factorial numbers less than or equal to N | Practice | GeeksforGeeks*
Pending	Reverse an Array without Loop	*Practice | GeeksforGeeks | A computer science portal for geeks*
Pending	Check if String is palindrome	*Valid Palindrome - LeetCode*
Pending	Fibonacci Series	*Fibonacci Number - LeetCode*
	1.4 Hashing
Pending	Learn basics of hashing	-
Pending	Count Frequency in a range	*Frequencies of Limited Range Array Elements | Practice | GeeksforGeeks*
Pending	Highest / Lowest Frequency Elements	*Frequency of the Most Frequent Element - LeetCode*
	2. Different types of Sorting
Pending	Selection Sort	*Selection Sort | Practice | GeeksforGeeks*
Pending	Bubble Sort	*Bubble Sort | Practice | GeeksforGeeks*
Pending	Insertion Sort	*Insertion Sort | Practice | GeeksforGeeks*
Pending	Merge Sort	*Merge Sort | Practice | GeeksforGeeks*
Pending	Recursive Bubble Sort	*Bubble Sort | Practice | GeeksforGeeks*
Pending	Recursive Insertion Sort	*Insertion Sort | Practice | GeeksforGeeks*
Pending	Quick Sort	*Quick Sort | Practice | GeeksforGeeks*
	3. Problems on Arrays
	3.1 EASY
Pending	Largest Element in an Array	*Largest Element in Array | Practice | GeeksforGeeks*
Pending	Second Largest Element in an Array without sorting	*Second Largest | Practice | GeeksforGeeks*
Pending	Check if the array is sorted	*Check if Array Is Sorted and Rotated - LeetCode*
Pending	Remove duplicates from Sorted array	*Remove Duplicates from Sorted Array - LeetCode*
Pending	Left Rotate an array by one place	*Rotate Array - LeetCode*
Pending	Left rotate an array by D places	*Rotate Array - LeetCode*
Pending	Move Zeros to end	*Move Zeroes - LeetCode*
Pending	Linear Search	*Searching an element in a sorted array | Practice | GeeksforGeeks*
Pending	Merge 2 sorted Arrays	*Union of Two Sorted Arrays | Practice | GeeksforGeeks*
Pending	Find missing number in an array	*Missing Number - LeetCode*
Pending	Maximum Consecutive Ones	*Max Consecutive Ones - LeetCode*
Pending	Find the number that appears once, and other numbers twic	*Single Number - LeetCode*
Pending	Longest subarray with given sum K(positives)	*Longest Sub-Array with Sum K | Practice | GeeksforGeeks*
Pending	Longest subarray with sum K (Positives + Negatives)	*Longest Sub-Array with Sum K | Practice | GeeksforGeeks*
	3.2 MEDIUM
Pending	2Sum Problem	*Two Sum - LeetCode*
Pending	Sort an array of 0's 1's and 2's	*Sort Colors - LeetCode*

Pending	Majority Element (>n/2 times)	*Majority Element - LeetCode*
Pending	Kadane's Algorithm, maximum subarray sum	*Maximum Subarray - LeetCode*
Pending	Print subarray with maximum subarray sum	*Max sum in sub-arrays | Practice | GeeksforGeeks*
Pending	Stock Buy and Sell	*Best Time to Buy and Sell Stock - LeetCode*
Pending	Rearrange the array in alternating positive and negative item	*Rearrange Array Elements by Sign - LeetCode*
Pending	Next Permutation	*Next Permutation - LeetCode*
Pending	Leaders in an Array problem	*Leaders in an array | Practice | GeeksforGeeks*
Pending	Longest Consecutive Sequence in an Array	*Longest Consecutive Sequence - LeetCode*
Pending	Set Matrix Zeros	*Set Matrix Zeroes - LeetCode*
Pending	Rotate Matrix by 90 degrees	*Rotate Image - LeetCode*
Pending	Print the matrix in spiral manner	*Spiral Matrix - LeetCode*
Pending	Count subarrays with given sum	*Subarray Sum Equals K - LeetCode*
	3.3 HARD	
Pending	Find the repeating and missing number	*Pascal's Triangle - LeetCode*
Pending	Majority Element (n/3 times)	*Majority Element II - LeetCode*
Pending	3-Sum Problem	*3Sum - LeetCode*
Pending	4-Sum Problem	*4Sum - LeetCode*
Pending	Largest Subarray with 0 Sum	*Largest subarray with 0 sum | Practice | GeeksforGeeks*
Pending	Count number of subarrays with given xor K	*Subarray with given XOR | Interviewbit*
Pending	Merge Overlapping Subintervals	*Merge Intervals - LeetCode*
Pending	Merge two sorted arrays without extra space	*Merge Sorted Array - LeetCode*
Pending	Find the repeating and missing number	*Find Missing And Repeating | Practice | GeeksforGeeks*
Pending	Count Inversions	*Count Inversions | Practice | GeeksforGeeks*
Pending	Reverse Pairs	*Reverse Pairs - LeetCode*
Pending	Maximum Product Subarray	*Maximum Product Subarray - LeetCode*
	4. Binary Search	
	4.1 Binary Search on simple 1D Arrays	
Pending	Binary Search to find X in sorted array	*Binary Search - LeetCode*
Pending	Implement Lower Bound	*Floor in a Sorted Array | Practice | GeeksforGeeks*
Pending	Implement Upper Bound	*Ceil The Floor | Practice | GeeksforGeeks*
Pending	Search Insert Position	*Search Insert Position - LeetCode*
Pending	Floor/Ceil in Sorted Array	*Ceil The Floor - Naukri Code 360*
Pending	Find the first or last occurrence of a given number in a sorted	*Find First and Last Position of Element in Sorted Array - LeetCode*
Pending	Count occurrences of a number in a sorted array with duplica	*Number of occurrence | Practice | GeeksforGeeks*
Pending	Search in Rotated Sorted Array I	*Search in Rotated Sorted Array - LeetCode*
Pending	Search in Rotated Sorted Array II	*Search in Rotated Sorted Array II - LeetCode*
Pending	Find minimum in Rotated Sorted Array	*Find Minimum in Rotated Sorted Array - LeetCode*
Pending	Find out how many times has an array been rotated	*Rotation | Practice | GeeksforGeeks*
Pending	Single element in a Sorted Array	*Single Element in a Sorted Array - LeetCode*
Pending	Find peak element	*Find Peak Element - LeetCode*
	4.2 Binary Search on Answers	
Pending	Find square root of a number in log n	*Square root of a number | Practice | GeeksforGeeks*
Pending	Find the Nth root of a number using binary search	*Find Nth root of M | Practice | GeeksforGeeks*
Pending	Koko Eating Bananas	*Koko Eating Bananas - LeetCode*
Pending	Minimum days to make M bouquets	*Minimum Number of Days to Make m Bouquets - LeetCode*
Pending	Find the smallest Divisor	*Find the Smallest Divisor Given a Threshold - LeetCode*
Pending	Capacity to Ship Packages within D Days	*Capacity To Ship Packages Within D Days - LeetCode*
Pending	Kth Missing Positive Number	*Kth Missing Positive Number - LeetCode*
Pending	Aggressive Cows	*SPOJ.com - Problem AGGRCOW*
Pending	Book Allocation Problem	*Allocate Books - Naukri Code 360*
Pending	Split array - Largest Sum	*Split Array Largest Sum - LeetCode*
Pending	Painter's partition	*Painter's Partition Problem - Naukri Code 360*
Pending	Minimize Max Distance to Gas Station	*Minimize Max Distance to Gas Station - LeetCode*
Pending	Median of 2 sorted arrays	*Median of Two Sorted Arrays - LeetCode*
Pending	Kth element of 2 sorted arrays	*K-th element of two Arrays | Practice | GeeksforGeeks*
	4.3 Binary Search on 2D Arrays	
Pending	Find the row with maximum number of 1's	*Row with max 1s | Practice | GeeksforGeeks*
Pending	Search in a 2 D matrix	*Search a 2D Matrix - LeetCode*
Pending	Search in a row and column wise sorted matrix	*Search a 2D Matrix II - LeetCode*
Pending	Find Peak Element (2D Matrix)	*Find a Peak Element II - LeetCode*
Pending	Matrix Median	*Median in a row-wise sorted Matrix | Practice | GeeksforGeeks*
	5. Strings	
	5.1 EASY	
Pending	Remove outermost Paranthesis	*Remove Outermost Parentheses - LeetCode*

Pending	Reverse words in a given string / Palindrome Check	*Reverse Words in a String - LeetCode*
Pending	Largest odd number in a string	*Largest Odd Number in String - LeetCode*
Pending	Longest Common Prefix	*Longest Common Prefix - LeetCode*
Pending	Isomorphic String	*Isomorphic Strings - LeetCode*
Pending	Check whether one string is a rotation of another	*Rotate String - LeetCode*
Pending	Check if two strings are anagram of each other	*Valid Anagram - LeetCode*
	5.2 MEDIUM	
Pending	Sort Characters by frequency	*Sort Characters By Frequency - LeetCode*
Pending	Maximum Nesting Depth of Paranthesis	*Maximum Nesting Depth of the Parentheses - LeetCode*
Pending	Roman Number to Integer and vice versa	*Roman to Integer - LeetCode*
Pending	Implement Atoi	*String to Integer (atoi) - LeetCode*
Pending	Count Number of Substrings	*Count number of substrings | Practice | GeeksforGeeks*
Pending	Longest Palindromic Substring [Do it without DP]	*Longest Palindromic Substring - LeetCode*
Pending	Sum of Beauty of all substring	*Sum of Beauty of All Substrings - LeetCode*
Pending	Reverse Every Word in A String	*Reverse Words in a String - LeetCode*
	5.3 HARD	
Pending	Minimum number of bracket reversals needed to make an ex	*Minimum Add to Make Parentheses Valid - LeetCode*
Pending	Count and say	*Count and Say - LeetCode*
Pending	Hashing In Strings	*Index of the First Occurrence of pattern in a text | Practice | GeeksforGeeks*
Pending	Rabin Karp	*Repeated String Match - LeetCode*
Pending	Z-Function	*Find the Index of the First Occurrence in a String - LeetCode*
Pending	KMP algo / LPS(pi) array	*Find the Index of the First Occurrence in a String - LeetCode*
Pending	Shortest Palindrome	*Shortest Palindrome - LeetCode*
Pending	Longest happy prefix	*Longest Happy Prefix - LeetCode*
Pending	Count palindromic subsequence in given string	*Count Palindromic Subsequences | Practice | GeeksforGeeks*
	6. Linked List (Single LL, Double LL)	
	6.1 Learn Singly Linked List	
Pending	Introduction to LinkedList	*Introduction to Linked List | Practice | GeeksforGeeks*
Pending	Inserting a node in LinkedList	*Linked List Insertion | Practice | GeeksforGeeks*
Pending	Deleting a node in LinkedList	*Delete Node in a Linked List - LeetCode*
Pending	Find the length of the linkedlist	*Count nodes of linked list | Practice | GeeksforGeeks*
Pending	Search an element in the LL	*Search in Linked List | Practice | GeeksforGeeks*
Pending	Design Linked List	*Design Linked List - LeetCode*
	6.2 Learn Doubly Linked List	
Pending	Introduction to DLL	*Introduction to Doubly Linked List | Practice | GeeksforGeeks*
Pending	Insert a node in DLL	*Doubly linked list Insertion at given position | Practice | GeeksforGeeks*
Pending	Delete a node in DLL	*Delete node in Doubly Linked List | Practice | GeeksforGeeks*
Pending	Reverse a DLL	*Reverse a Doubly Linked List | Practice | GeeksforGeeks*
	6.3 Medium problems of SLL	
Pending	Middle of a LinkedList [TortoiseHare Method]	*Middle of the Linked List - LeetCode*
Pending	Reverse a LinkedList [Iterative]	*Reverse Linked List - LeetCode*
Pending	Reverse a LL [Recursive]	*Reverse Linked List - LeetCode*
Pending	Detect a loop in LL	*Linked List Cycle - LeetCode*
Pending	Find the starting point in LL	*Linked List Cycle II - LeetCode*
Pending	Length of Loop in LL	*Find length of Loop | Practice | GeeksforGeeks*
Pending	Check if LL is palindrome or not	*Palindrome Linked List - LeetCode*
Pending	Segrregate odd and even nodes in LL	*Odd Even Linked List - LeetCode*
Pending	Remove Nth node from the back of the LL	*Remove Nth Node From End of List - LeetCode*
Pending	Delete the middle node of LL	*Delete the Middle Node of a Linked List - LeetCode*
Pending	Sort LL	*Sort List - LeetCode*
Pending	Sort a LL of 0's 1's and 2's by changing links	*Given a linked list of 0s, 1s and 2s, sort it. | Practice | GeeksforGeeks*
Pending	Find the intersection point of 2 LL	*Intersection of Two Linked Lists - LeetCode*
Pending	Add 1 to a number represented by LL	*Add 1 to a number represented as linked list | Practice | GeeksforGeeks*
Pending	Add 2 numbers in LL	*Add Two Numbers - LeetCode*
	6.4 Medium problems of DLL	
Pending	Delete all occurrences of a key in DLL	*Delete all occurrences of a given key in a doubly linked list | Practice | GeeksforGeeks*
Pending	Find pairs with given sum in DLL	*Find pairs with given sum in doubly linked list | Practice | GeeksforGeeks*
Pending	Remove duplicates from sorted DLL	*Remove duplicates from a sorted doubly linked list | Practice | GeeksforGeeks*
	6.5 Hard problems of LL	
Pending	Reverse LL in group of given size K	*Reverse Nodes in k-Group - LeetCode*
Pending	Rotate a LL	*Rotate List - LeetCode*
Pending	Flattening of LL	*Flattening a Linked List | Practice | GeeksforGeeks*

Pending	Clone a Linked List with random and next pointer	*Copy List with Random Pointer - LeetCode*

7. Bit Manipulation

7.1 Learning Bit Manipulation

Pending	Introduction to Bit Manipulation	*Bit Manipulation | Practice | GeeksforGeeks*
Pending	Check if the i-th bit is set or not	*Check whether K-th bit is set or not | Practice | GeeksforGeeks*
Pending	Check if a number is odd or not	*Odd or Even | Practice | GeeksforGeeks*
Pending	Check if a number is power of 2 or not	*Power of Two - LeetCode*
Pending	Count the number of set bits	*Count total set bits | Practice | GeeksforGeeks*
Pending	Set/Unset the rightmost unset bit	*Set the rightmost unset bit | Practice | GeeksforGeeks*
Pending	Swap two numbers	*Swap two numbers | Practice | GeeksforGeeks*
Pending	Divide two integers without using multiplication, division and	*Divide Two Integers - LeetCode*

7.2 Problems on Bit Manipulation

Pending	Count number of bits to be flipped to convert A to B	*Minimum Bit Flips to Convert Number - LeetCode*
Pending	Find the number that appears odd number of times	*Single Number - LeetCode*
Pending	Power Set	*Subsets - LeetCode*
Pending	Find xor of numbers from L to R	*Find XOR of numbers from L to R. | Practice | GeeksforGeeks*
Pending	Find the two numbers appearing odd number of times	*Two numbers with odd occurrences | Practice | GeeksforGeeks*

7.3 Advance Problems

Pending	Print Prime Factors of a Number	*Prime Factors | Practice | GeeksforGeeks*
Pending	All Divisors of a Number	*All divisors of a Number | Practice | GeeksforGeeks*
Pending	Sieve of Eratosthenes	*Count Primes - LeetCode*
Pending	Find Prime Factorisation of a Number using Sieve	*Prime Factorization using Sieve | Practice | GeeksforGeeks*
Pending	Power(n, x)	*Pow(x, n) - LeetCode*

8. Recursion

8.1 Learn Basic Recursion

Pending	Recursive Implementation of atoi()	*String to Integer (atoi) - LeetCode*
Pending	Pow(x, n)	*Pow(x, n) - LeetCode*
Pending	Count Good numbers	*Count Good Numbers - LeetCode*
Pending	Sort a stack using recursion	*Sort a stack | Practice | GeeksforGeeks*
Pending	Reverse a stack using recursion	*Reverse a Stack | Practice | GeeksforGeeks*

8.2 Generate Subsequences

Pending	Generate all binary strings	*https://www.geeksforgeeks.org/generate-binary-strings-without-consecutive-1s*
Pending	Generate Paranthesis	*Generate Parentheses - LeetCode*
Pending	Print all subsequences/Power Set	*Subsets - LeetCode*
Pending	Learn All Patterns of Subsequences	*Better String | Practice | GeeksforGeeks*
Pending	Count all subsequences with sum K	*Perfect Sum Problem | Practice | GeeksforGeeks*
Pending	Check if there exists a subsequence with sum K	*Subset Sum - Naukri Code 360*
Pending	Combination Sum	*Combination Sum - LeetCode*
Pending	Combination Sum-II	*Combination Sum II - LeetCode*
Pending	Subset Sum-I	*Subset Sums | Practice | GeeksforGeeks*
Pending	Subset Sum-II	*Subsets II - LeetCode*
Pending	Combination Sum - III	*Combination Sum III - LeetCode*
Pending	Letter Combinations of a Phone number	*Letter Combinations of a Phone Number - LeetCode*

8.3 Hard problems on recursion

Pending	Palindrome Partitioning	*Palindrome Partitioning - LeetCode*
Pending	Word Search	*Word Search - LeetCode*
Pending	N Queen	*N-Queens - LeetCode*
Pending	Rat in a Maze	*Rat in a Maze Problem - I | Practice | GeeksforGeeks*
Pending	Word Break	*Word Break - LeetCode*
Pending	M Coloring Problem	*M-Coloring Problem | Practice | GeeksforGeeks*
Pending	Sudoko Solver	*Sudoku Solver - LeetCode*
Pending	Expression Add Operators	*Expression Add Operators - LeetCode*

9. Stacks and Queues

9.1 Learn the basics

Pending	Implement Stack using Arrays	*Implement stack using array | Practice | GeeksforGeeks*
Pending	Implement Queue using Arrays	*Implement Queue using array | Practice | GeeksforGeeks*
Pending	Implement Stack using Queue	*Implement Stack using Queues - LeetCode*
Pending	Implement Queue using Stack	*Implement Queue using Stacks - LeetCode*
Pending	Implement stack using Linkedlist	*Implement Stack using Linked List | Practice | GeeksforGeeks*

Pending	Implement queue using Linkedlist	*Implement Queue using Linked List | Practice | GeeksforGeeks*
Pending	Check for balanced paranthesis	*Valid Parentheses - LeetCode*
Pending	Implement Min Stack	*Min Stack - LeetCode*
	9.2 Prefix, Infix, Postfix conversions	
Pending	Infix to Postfix Conversion using Stack	*Infix to Postfix | Practice | GeeksforGeeks*
Pending	Prefix to Infix Conversion	*Prefix to Infix Conversion | Practice | GeeksforGeeks*
Pending	Prefix to Postfix Conversion	*Prefix to Postfix Conversion | Practice | GeeksforGeeks*
Pending	Postfix to Prefix Conversion	*Postfix to Prefix Conversion | Practice | GeeksforGeeks*
Pending	Postfix to Infix	*Postfix to Infix Conversion | Practice | GeeksforGeeks*
Pending	Convert Infix To Prefix Notation	*Infix to Postfix | Practice | GeeksforGeeks*
	9.3 Monotonic Stack/Queue Problems	
Pending	Next Greater Element	*Next Greater Element I - LeetCode*
Pending	Next Greater Element 2	*Next Greater Element II - LeetCode*
Pending	Next Smaller Element	*Nearest Smaller Element | Interviewbit*
Pending	Number of NGEs to the right	*Number of NGEs to the right | Practice | GeeksforGeeks*
Pending	Trapping Rainwater	*Trapping Rain Water - LeetCode*
Pending	Sum of subarray minimum	*Sum of Subarray Minimums - LeetCode*
Pending	Asteroid Collision	*Asteroid Collision - LeetCode*
Pending	Sum of subarray ranges	*Sum of Subarray Ranges - LeetCode*
Pending	Remove k Digits	*Remove K Digits - LeetCode*
Pending	Largest rectangle in a histogram	*Largest Rectangle in Histogram - LeetCode*
Pending	Maximal Rectangles	*Maximal Rectangle - LeetCode*
	9.4 Implemention Problems	
Pending	Sliding Window maximum	*Sliding Window Maximum - LeetCode*
Pending	Stock span problem	*Online Stock Span - LeetCode*
Pending	The Celebrity Problem	*Find the Celebrity - LeetCode*
Pending	LRU cache	*LRU Cache - LeetCode*
Pending	LFU cache	*LFU Cache - LeetCode*
	10. Sliding Window and Two Pointers	
	10.1 Medium level Problems	
Pending	Longest Substring Without Repeating Characters	*Longest Substring Without Repeating Characters - LeetCode*
Pending	Max Consecutive Ones III	*Max Consecutive Ones III - LeetCode*
Pending	Fruit Into Baskets	*Fruit Into Baskets | Practice | GeeksforGeeks*
Pending	Longest repeating character replacement	*Longest Repeating Character Replacement - LeetCode*
Pending	Binary subarray with sum	*Binary Subarrays With Sum - LeetCode*
Pending	Count number of nice subarrays	*Count Number of Nice Subarrays - LeetCode*
Pending	Number of substring containing all three characters	*Number of Substrings Containing All Three Characters - LeetCode*
Pending	Maximum point you can obtain from cards	*Maximum Points You Can Obtain from Cards - LeetCode*
	10.2 Hard level Problems	
Pending	Longest Substring with At Most K Distinct Characters	*Longest Substring with At Most K Distinct Characters - LeetCode*
Pending	Subarray with k different integers	*Subarrays with K Different Integers - LeetCode*
Pending	Minimum Window Substring	*Minimum Window Substring - LeetCode*
Pending	Minimum Window Subsequence	*Minimum Window Subsequence - LeetCode*
	11. Heaps	
	11.1 Introduction to Heaps	
Pending	Introduction to Priority Queues using Binary Heaps	*Implementation of Priority Queue using Binary Heap | Practice | GeeksforGeeks*
Pending	Min Heap and Max Heap Implementation	*Binary Heap Operations | Practice | GeeksforGeeks*
Pending	Convert min Heap to max Heap	*Convert Min Heap to Max Heap | Practice | GeeksforGeeks*
	11.2 Medium level problems	
Pending	Kth largest element in an array [use priority queue]	*Kth Largest Element in an Array - LeetCode*
Pending	Kth smallest element in an array [use priority queue]	*Kth smallest element | Practice | GeeksforGeeks*
Pending	Merge M sorted Lists	*Merge k Sorted Lists - LeetCode*
Pending	Replace each array element by its corresponding rank	*Replace elements by its rank in the array | Practice | GeeksforGeeks*
Pending	Task Scheduler	*Task Scheduler - LeetCode*
Pending	Hands of Straights	*Hand of Straights - LeetCode*
	11.3 Hard level problems	
Pending	Design twitter	*Design Twitter - LeetCode*
Pending	Connect `n` ropes with minimal cost	*Rod Cutting | Practice | GeeksforGeeks*
Pending	Kth largest element in a stream of running integers	*Kth Largest Element in a Stream - LeetCode*

Pending	Maximum Sum Combination	*Maximum Sum Combinations | Interviewbit*
Pending	Find Median from Data Stream	*Find Median from Data Stream - LeetCode*
Pending	K most frequent elements	*Top K Frequent Elements - LeetCode*
	12. Greedy Algorithms	
	12.1 Easy Level Problems	
Pending	Assign Cookies	*Assign Cookies - LeetCode*
Pending	Fractional Knapsack Problem	*Fractional Knapsack | Practice | GeeksforGeeks*
Pending	Greedy algorithm to find minimum number of coins	*Find minimum number of coins to make a given value (Coin Change) - GeeksforGeeks*
Pending	Lemonade Change	*Lemonade Change - LeetCode*
Pending	Valid Paranthesis Checker	*Valid Parenthesis String - LeetCode*
	12.2 Medium/Hard Level Problems	
Pending	N meetings in one room	*N meetings in one room | Practice | GeeksforGeeks*
Pending	Jump Game	*Jump Game - LeetCode*
Pending	Jump Game 2	*Jump Game II - LeetCode*
Pending	Minimum number of platforms required for a railway	*Minimum Platforms | Practice | GeeksforGeeks*
Pending	Job sequencing Problem	*Job Sequencing Problem | Practice | GeeksforGeeks*
Pending	Candy	*Candy - LeetCode*
Pending	Program for Shortest Job First (or SJF) CPU Scheduling	*Shortest Job first | Practice | GeeksforGeeks*
Pending	Program for Least Recently Used (LRU) Page Replacement Al	*Page Faults in LRU | Practice | GeeksforGeeks*
Pending	Insert Interval	*Insert Interval - LeetCode*
Pending	Merge Intervals	*Merge Intervals - LeetCode*
Pending	Non-overlapping Intervals	*Non-overlapping Intervals - LeetCode*
	13. Binary Trees	
	13.1 Learn Traversal	
Pending	Introduction to Trees	*Introduction to Trees | Practice | GeeksforGeeks*
Pending	Create Binary Tree	*Binary Tree Representation | Practice | GeeksforGeeks*
Pending	Binary Tree Traversals in Binary Tree	*Tree Traversals - Naukri Code 360*
Pending	Preorder Traversal of Binary Tree	*Binary Tree Preorder Traversal - LeetCode*
Pending	Inorder Traversal of Binary Tree	*Binary Tree Inorder Traversal - LeetCode*
Pending	Post-order Traversal of Binary Tree	*Binary Tree Postorder Traversal - LeetCode*
Pending	Level order Traversal / Level order traversal in spiral form	*Binary Tree Level Order Traversal - LeetCode*
Pending	Iterative Preorder Traversal of Binary Tree	*Binary Tree Preorder Traversal - LeetCode*
Pending	Iterative Inorder Traversal of Binary Tree	*Binary Tree Inorder Traversal - LeetCode*
Pending	Post-order Traversal of Binary Tree using 2 stack	*Binary Tree Postorder Traversal - LeetCode*
Pending	Post-order Traversal of Binary Tree using 1 stack	*Binary Tree Postorder Traversal - LeetCode*
Pending	Preorder, Inorder, and Postorder Traversal in one Traversal	*Postorder Traversal (Iterative) | Practice | GeeksforGeeks*
	13.2 Medium Level Problems	
Pending	Height of a Binary Tree	*Maximum Depth of Binary Tree - LeetCode*
Pending	Check if the Binary tree is height-balanced or not	*Balanced Binary Tree - LeetCode*
Pending	Diameter of Binary Tree	*Diameter of Binary Tree - LeetCode*
Pending	Maximum path sum	*Binary Tree Maximum Path Sum - LeetCode*
Pending	Check if two trees are identical or not	*Same Tree - LeetCode*
Pending	Zig Zag Traversal of Binary Tree	*Binary Tree Zigzag Level Order Traversal - LeetCode*
Pending	Boundary Traversal of Binary Tree	*Boundary of Binary Tree - LeetCode*
Pending	Vertical Order Traversal of Binary Tree	*Vertical Order Traversal of a Binary Tree - LeetCode*
Pending	Top View of Binary Tree	*Top View of Binary Tree | Practice | GeeksforGeeks*
Pending	Bottom View of Binary Tree	*Bottom View of Binary Tree | Practice | GeeksforGeeks*
Pending	Right/Left View of Binary Tree	*Binary Tree Right Side View - LeetCode*
Pending	Symmetric Binary Tree	*Symmetric Tree - LeetCode*
	13.3 Hard Level Problems	
Pending	Root to Node Path in Binary Tree	*Root to Leaf Paths | Practice | GeeksforGeeks*
Pending	LCA in Binary Tree	*Lowest Common Ancestor of a Binary Tree - LeetCode*
Pending	Maximum width of a Binary Tree	*Maximum Width of Binary Tree - LeetCode*
Pending	Check for Children Sum Property	*Check for Children Sum Property in a Binary Tree | Practice | GeeksforGeeks*
Pending	Print all the Nodes at a distance of K in a Binary Tree	*All Nodes Distance K in Binary Tree - LeetCode*
Pending	Minimum time taken to BURN the Binary Tree from a Node	*Burning Tree | Practice | GeeksforGeeks*
Pending	Count total Nodes in a COMPLETE Binary Tree	*Count Complete Tree Nodes - LeetCode*
Pending	Requirements needed to construct a Unique Binary Tree	*Unique Binary Tree Requirements | Practice | GeeksforGeeks*
Pending	Construct Binary Tree from inorder and preorder	*Construct Binary Tree from Preorder and Inorder Traversal - LeetCode*
Pending	Construct the Binary Tree from Postorder and Inorder Travers	*Construct Binary Tree from Inorder and Postorder Traversal - LeetCode*
Pending	Serialize and deserialize Binary Tree	*Serialize and Deserialize Binary Tree - LeetCode*
Pending	Morris Preorder Traversal of a Binary Tree	*Binary Tree Inorder Traversal - LeetCode*
Pending	Morris Inorder Traversal of a Binary Tree	*Binary Tree Inorder Traversal - LeetCode*
Pending	Flatten Binary Tree to LinkedList	*Flatten Binary Tree to Linked List - LeetCode*

14. Binary Search Trees

14.1 Introduction

Pending	Introduction to Binary Search Tree	*Binary Search Trees | Practice | GeeksforGeeks*
Pending	Search in a Binary Search Tree	*Search in a Binary Search Tree - LeetCode*
Pending	Find Min/Max in BST	*Minimum element in BST | Practice | GeeksforGeeks*

14.2 Practice Problems

Pending	Ceil in a Binary Search Tree	*Ceil in BST | Practice | GeeksforGeeks*
Pending	Floor in a Binary Search Tree	*Floor in BST | Practice | GeeksforGeeks*
Pending	Insert a given Node in Binary Search Tree	*Insert into a Binary Search Tree - LeetCode*
Pending	Delete a Node in Binary Search Tree	*Delete Node in a BST - LeetCode*
Pending	Find K-th smallest/largest element in BST	*Kth Smallest Element in a BST - LeetCode*
Pending	Check if a tree is a BST or BT	*Validate Binary Search Tree - LeetCode*
Pending	LCA in Binary Search Tree	*Lowest Common Ancestor of a Binary Search Tree - LeetCode*
Pending	Construct a BST from a preorder traversal	*Construct Binary Search Tree from Preorder Traversal - LeetCode*
Pending	Inorder Successor/Predecessor in BST	*Inorder Successor in BST - LeetCode*
Pending	Merge 2 BST's	*Binary Search Tree Iterator - LeetCode*
Pending	Two Sum In BST | Check if there exists a pair with Sum K	*Two Sum IV - Input is a BST - LeetCode*
Pending	Recover BST | Correct BST with two nodes swapped	*Recover Binary Search Tree - LeetCode*
Pending	Largest BST in Binary Tree	*Largest BST | Practice | GeeksforGeeks*

15. Graphs

15.1 Introduction to Graphs

Pending	Graph and Types	*Graph and Vertices | Practice | GeeksforGeeks*
Pending	Graph Representation	*Print adjacency list | Practice | GeeksforGeeks*
Pending	Connected Components	*Number of Connected Components in an Undirected Graph - LeetCode*
Pending	BFS	*BFS of graph | Practice | GeeksforGeeks*
Pending	DFS	*DFS of Graph | Practice | GeeksforGeeks*

15.2 Problems based on BFS & DFS

Pending	Number of provinces	*Number of Provinces - LeetCode*
Pending	Connected Components Problem in Matrix	*Number of Provinces | Practice | GeeksforGeeks*
Pending	Rotten Oranges	*Rotting Oranges - LeetCode*
Pending	Flood fill	*Flood Fill - LeetCode*
Pending	Cycle Detection in undirected Graph (bfs)	*Detect cycle in an undirected graph | Practice | GeeksforGeeks*
Pending	Cycle Detection in undirected Graph (dfs)	*Detect cycle in an undirected graph | Practice | GeeksforGeeks*
Pending	0/1 Matrix (Bfs Problem)	*01 Matrix - LeetCode*
Pending	Surrounded Regions (dfs)	*Surrounded Regions - LeetCode*
Pending	Number of Enclaves [flood fill implementation - multisource]	*Number of Enclaves - LeetCode*
Pending	Word ladder - 1	*Word Ladder - LeetCode*
Pending	Word ladder - 2	*Word Ladder II - LeetCode*
Pending	Number of Distinct Islands [dfs multisource]	*Number of Distinct Islands II - LeetCode*
Pending	Bipartite Graph (DFS)	*Is Graph Bipartite? - LeetCode*
Pending	Cycle Detection in Directed Graph (DFS)	*Detecting cycle in directed graph problem - Course Schedule II - LeetCode*

15.3 Topo Sort based problems

Pending	Topo Sort	*Topological sort | Practice | GeeksforGeeks*
Pending	Kahn's Algorithm	*Topological sort | Practice | GeeksforGeeks*
Pending	Cycle Detection in Directed Graph (BFS)	*Detect cycle in a directed graph | Practice | GeeksforGeeks*
Pending	Course Schedule - I	*Course Schedule - LeetCode*
Pending	Course Schedule - II	*Course Schedule II - LeetCode*
Pending	Find eventual safe states	*Find Eventual Safe States - LeetCode*
Pending	Alien dictionary	*Alien Dictionary - LeetCode*

15.4 Shortest Path related Problems

Pending	Shortest Path in UG with unit weights	*Shortest path in Undirected Graph | Practice | GeeksforGeeks*
Pending	Shortest Path in DAG	*Shortest path in Directed Acyclic Graph | Practice | GeeksforGeeks*
Pending	Djisktra's Algorithm	*Implementing Dijkstra Algorithm | Practice | GeeksforGeeks*
Pending	Why priority Queue is used in Djisktra's Algorithm	*Implementing Dijkstra Algorithm | Practice | GeeksforGeeks*
Pending	Shortest path in a binary maze	*Shortest Path in Binary Matrix - LeetCode*
Pending	Path with minimum effort	*Path With Minimum Effort - LeetCode*
Pending	Cheapest flights within k stops	*Cheapest Flights Within K Stops - LeetCode*
Pending	Network Delay time	*Network Delay Time - LeetCode*
Pending	Number of ways to arrive at destination	*Number of Ways to Arrive at Destination - LeetCode*
Pending	Minimum steps to reach end from start by performing multip	*Minimum Multiplications to reach End | Practice | GeeksforGeeks*
Pending	Bellman Ford Algorithm	*Distance from the Source (Bellman-Ford Algorithm) | Practice | GeeksforGeeks*
Pending	Floyd Warshal Algorithm	*Floyd Warshall | Practice | GeeksforGeeks*

Pending	Find the city with the smallest number of neighbors in a thre	*Find the City With the Smallest Number of Neighbors at a Threshold Distance - LeetCode*
	15.5 Minimum Spanning Tree and Disjoint Set	
Pending	Minimum Spanning Tree	*Minimum Spanning Tree | Practice | GeeksforGeeks*
Pending	Prim's Algorithm	*Minimum Spanning Tree | Practice | GeeksforGeeks*
Pending	Disjoint Set [Union by Rank]	*Disjoint set (Union-Find) | Practice | GeeksforGeeks*
Pending	Disjoint Set [Union by Size]	*Disjoint set (Union-Find) | Practice | GeeksforGeeks*
Pending	Kruskal's Algorithm	*Minimum Spanning Tree | Practice | GeeksforGeeks*
Pending	Number of operations to make network connected	*Number of Operations to Make Network Connected - LeetCode*
Pending	Most stones removed with same rows or columns	*Most Stones Removed with Same Row or Column - LeetCode*
Pending	Accounts merge	*Accounts Merge - LeetCode*
Pending	Number of island II	*Number of Islands II - LeetCode*
Pending	Making a Large Island	*Making A Large Island - LeetCode*
Pending	Swim in rising water	*Swim in Rising Water - LeetCode*
	15.6 Other Graph Algorithms	
Pending	Bridges in Graph	*Critical Connections in a Network - LeetCode*
Pending	Articulation Point	*Articulation Point - I | Practice | GeeksforGeeks*
Pending	Kosaraju's Algorithm	*Strongly Connected Components (Kosaraju's Algo) | Practice | GeeksforGeeks*
	16. Dynamic Programming	
	16.1 Introduction to Dynamic Programming	
Pending	Dynamic Programming Introduction	*Introduction to DP | Practice | GeeksforGeeks*
	16.2 DP on 1D	
Pending	Climbing Stars	*Climbing Stairs - LeetCode*
Pending	Frog Jump	*Geek Jump | Practice | GeeksforGeeks*
Pending	Frog Jump with k distances	*Minimal Cost | Practice | GeeksforGeeks*
Pending	Maximum sum of non-adjacent elements	*House Robber - LeetCode*
Pending	House Robber	*House Robber II - LeetCode*
	16.3 DP on 2D/3D or Grids	
Pending	Ninja's Training	*Geek's Training | Practice | GeeksforGeeks*
Pending	Grid Unique Paths : DP on Grids	*Unique Paths - LeetCode*
Pending	Grid Unique Paths 2	*Unique Paths II - LeetCode*
Pending	Minimum path sum in Grid	*Minimum Path Sum - LeetCode*
Pending	Minimum path sum in Triangular Grid	*Triangle - LeetCode*
Pending	Minimum/Maximum Falling Path Sum	*Minimum Falling Path Sum - LeetCode*
Pending	3-d DP : Ninja and his friends	*Chocolates Pickup | Practice | GeeksforGeeks*
	16.4 DP on subsequences	
Pending	Subset sum equal to target	*Subset Sum Problem | Practice | GeeksforGeeks*
Pending	Partition Equal Subset Sum	*Partition Equal Subset Sum - LeetCode*
Pending	Partition Set Into 2 Subsets With Min Absolute Sum Diff	*Partition Array Into Two Arrays to Minimize Sum Difference - LeetCode*
Pending	Count Subsets with Sum K	*Perfect Sum Problem | Practice | GeeksforGeeks*
Pending	Count Partitions with Given Difference	*Partitions with Given Difference | Practice | GeeksforGeeks*
Pending	0/1 Knapsack	*0 - 1 Knapsack Problem | Practice | GeeksforGeeks*
Pending	Minimum Coins	*Coin Change - LeetCode*
Pending	Target Sum	*Target Sum - LeetCode*
Pending	Coin Change 2	*Coin Change II - LeetCode*
Pending	Unbounded Knapsack	*Knapsack with Duplicate Items | Practice | GeeksforGeeks*
Pending	Rod Cutting Problem	*Rod Cutting | Practice | GeeksforGeeks*
	16.5 DP on Strings	
Pending	Longest Common Subsequence	*Longest Common Subsequence - LeetCode*
Pending	Print Longest Common Subsequence	*Print all LCS sequences | Practice | GeeksforGeeks*
Pending	Longest Common Substring	*Longest Common Substring | Practice | GeeksforGeeks*
Pending	Longest Palindromic Subsequence	*Longest Palindromic Subsequence - LeetCode*
Pending	Minimum insertions to make string palindrome	*Minimum Insertion Steps to Make a String Palindrome - LeetCode*
Pending	Minimum Insertions/Deletions to Convert String	*Delete Operation for Two Strings - LeetCode*
Pending	Shortest Common Supersequence	*Shortest Common Supersequence - LeetCode*
Pending	Distinct Subsequences	*Distinct Subsequences - LeetCode*
Pending	Edit Distance	*Edit Distance - LeetCode*
Pending	Wildcard Matching	*Wildcard Matching - LeetCode*
	16.6 DP on Stocks	
Pending	Best Time to Buy and Sell Stock	*Best Time to Buy and Sell Stock - LeetCode*
Pending	Buy and Sell Stock - II	*Best Time to Buy and Sell Stock II - LeetCode*

Pending	Buy and Sell Stocks III	*Best Time to Buy and Sell Stock III - LeetCode*
Pending	Buy and Stock Sell IV	*Best Time to Buy and Sell Stock IV - LeetCode*
Pending	Buy and Sell Stocks With Cooldown	*Best Time to Buy and Sell Stock with Cooldown - LeetCode*
Pending	Buy and Sell Stocks With Transaction Fee	*Best Time to Buy and Sell Stock with Transaction Fee - LeetCode*
	16.7 DP on LIS	
Pending	Longest Increasing Subsequence	*Longest Increasing Subsequence - LeetCode*
Pending	Printing Longest Increasing Subsequence	*Print Longest Increasing Subsequence | Practice | GeeksforGeeks*
Pending	Longest Increasing Subsequence	*Longest Increasing Subsequence | Practice | GeeksforGeeks*
Pending	Largest Divisible Subset	*Largest Divisible Subset - LeetCode*
Pending	Longest String Chain	*Longest String Chain - LeetCode*
Pending	Longest Bitonic Subsequence	*Longest Bitonic subsequence | Practice | GeeksforGeeks*
Pending	Number of Longest Increasing Subsequences	*Number of Longest Increasing Subsequence - LeetCode*
	16.8 MCM DP | Partition DP	
Pending	Matrix Chain Multiplication	*Matrix Chain Multiplication | Practice | GeeksforGeeks*
Pending	Matrix Chain Multiplication | Bottom-Up	*Matrix Chain Multiplication | Practice | GeeksforGeeks*
Pending	Minimum Cost to Cut the Stick	*Minimum Cost to Cut a Stick - LeetCode*
Pending	Burst Balloons	*Burst Balloons - LeetCode*
Pending	Evaluate Boolean Expression to True	*Parsing A Boolean Expression - LeetCode*
Pending	Palindrome Partitioning - II	*Palindrome Partitioning II - LeetCode*
Pending	Partition Array for Maximum Sum	*Partition Array for Maximum Sum - LeetCode*
	16.9 DP on Squares	
Pending	Maximum Rectangle Area with all 1's	*Maximal Rectangle - LeetCode*
Pending	Count Square Submatrices with All Ones	*Count Square Submatrices with All Ones - LeetCode*
	17. Tries	
	17.1 Introduction and Problems	
Pending	Implement TRIE | INSERT | SEARCH | STARTSWITH	*Implement Trie (Prefix Tree) - LeetCode*
Pending	Implement Trie - 2 (Prefix Tree)	*Implement Trie II - Naukri Code 360*
Pending	Longest String with All Prefixes	*Complete String - Naukri Code 360*
Pending	Number of Distinct Substrings in a String	*Count Distinct Substrings - Naukri Code 360*
Pending	Bit PreRequisites for TRIE Problems	*Bit's basic operations | Practice | GeeksforGeeks*
Pending	Maximum XOR of two numbers in an array	*Maximum XOR of Two Numbers in an Array - LeetCode*
Pending	Maximum XOR With an Element From Array	*Maximum XOR With an Element From Array - LeetCode*