	Meet us on Youtube (Apna College)		
F	Ideal Time of 40 miles		
Easy Medium	Ideal Time : 5-10 mins Ideal Time : 15-20 mins		
Hard	Ideal Time : 15-20 mins Ideal Time : 40-60 mins (based on Qs)	5 Questions each Day	
Huru	idea filite : 40 00 filitis (based off Q3)		
Topics	Question (375)	Companies	Remarks
Arrays	Maximum and Minimum Element in an Array	3500,	
Arrays	Reverse the Array		
Arrays	Maximum-Subarray October Day Visit Control	Microsoft + Facebook Interview Qs	use Kadane's Algorithm
Arrays Arrays	Contains Duplicate Chocolate Distribution Problem	Amazon Interview Qs	
Arrays	Search an Element in a Sorted and Pivoted Array	A MIGLEST MINOR NOW QU	
Arrays	Next Permutation	Uber + Goldman Sachs + Adobe Interview Qs	
Arrays	Best time to Buy and Sell Stock	Amazon Interview Qs	
Arrays Arrays	Repeat and Missing Number Array Kth-Largest Element in an Array	Amazon interview Qs	
Arrays	Trapping Rain Water	Samsung Interview Qs	
Arrays	Product of Array Except Self	Microsoft + Facebook Interview Qs	
Arrays	Maximum Product Subarray		
Arrays Arrays	Find Minimum in Rotated Sorted Array Search in Rotated Sorted Array	Microsoft + Google + Apple Interview Qs	
Arrays	3Sum		
Arrays	Container With Most Water	Flipkart + Dunzo Interview Qs	
Arrays	Given Sum Pair With Smallest Element	Infosys + Amazon + Flipkart Interview Qs	
Arrays Arrays	Kth - Smallest Element Merge Overlapping Intervals	Google Interview Qs	
Arrays	Find Minimum Number of Merge Operations to Make an Array Palindrome	Coogle Interview Q5	
Arrays	Given an Array of Numbers Arrange the Numbers to Form the Biggest Number	Barclays Interview Qs	
Arrays	Space Optimization Using Bit Manipulations		
Arrays Arrays	Subarray Sum Divisible K Print all Possible Combinations of r Elements in a Given Array of Size n		
Arrays	Mo's Algorithm		
_			
St	Veltal Delta dassas		
Strings Strings	Valid Palindrome Valid Anagram		
Strings	Valid parentheses	Google Interview Qs	use Stacks (if possible)
Strings	Remove Consecutive Characters	doogle merview Qs	use stacks (ii possible)
Strings	Longest Common Prefix	Adobe + Grofers + Dunzo Interview Qs	
Strings	Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence		
Strings	Print all the Duplicates in the Input String	Ola + Amdocs IQ	
Strings	Longest Substring without Repeating Characters	Morgan Stanley + Amazon IQ	
Strings	Longest Repeating Character Replacement		
Strings	Group Anagrams	Samsung + Adobe + Amazon Interview Qs	
Strings	Longest Palindromic Substring	Microsoft + Google + Samsung + Visa IQ	
Strings Strings	Palindromic Substrings Next Permutation	Microsoft IQ	
Strings	Count Palindromic Subsequences	Myntra Interview Qs	
Strings	Smallest Window in a String Containing all the Characters of Another String	Microsoft + Amazon IQ	
Strings	Wildcard String Matching	Microsoft + Amazon + Ola IQ	
Strings	Longest Prefix Suffix	Flipkart + Swiggy IQ	
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		Direction December
Strings	Word Wrap		use Dynaming Programm
2D Arrays	Zigzag (or diagonal) Traversal of Matrix		
2D Arrays	Set Matrix Zeroes		
2D Arrays	Spiral Matrix	Flipkart + Apple + Societe Generale IQ	
2D Arrays	Rotate Image Word Search	Google + Ole + Coldman State 10	
2D Arrays 2D Arrays	Word Search Find the Number of Islands Set 1 (Using DFS)	Google + Ola + Goldman Sachs IQ Microsoft + Uber + Apple + Amazon IQ	Read about DFS
2D Arrays	Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'	Microsoft Obel - Apple + Alliazoff IQ	ivear about DF3
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	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	
	Find Four Elements that Sum to a Given Value	
Searching & Sorting		
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	
Searching & Sorting	MINIMUM SWaps to Sort	
5 1: 1:	n Iv Iv Canna vi M	
Backtracking	Backtracking Set 2 Rat in a Maze	
Backtracking	<u>Combinational Sum</u>	
Backtracking	<u>Crossword-Puzzle</u>	
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		
Emited List	Reorder List	
Linked List	Reorder List Detect and compare loop in a linked list	
Linked List	Detect and remove loop in a linked list	
Linked List	Detect and remove loop in a linked list Write a Function to get the Intersection Point of two Linked Lists	
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Linked List Stacks & Queues	Detect and remove loop in a linked list Write a Function to get the Intersection Point of two Linked Lists Flatten a linked list with next and child pointers Linked list in zig-zag fashion Reverse a doubly linked list Delete nodes which have a greater value on right side Segregate even and odd Flements in a Linked List Point to next higher value node in a linked list with an Arbitrary Pointer Rearrange a given linked list in place Sort Biotonic Doubly Linked Lists Merge K Sorted Lists Merge K Sorted Lists Merge sort for linked list Quicksort on singly-linked list Sum of two linked lists Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix	
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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	<u>Circular-tour</u>	
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	
Stacks & Queues	THICA COULTRIAL VISIGS AN 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	
dieeuy		
Greedy	Minimum Cost to cut a board into squares	
Greedy	Minimum Cost to cut a board into squares	
Greedy Binary Trees Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree	
Greedy Binary Trees Binary Trees Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree	
Greedy Binary Trees Binary Trees Binary Trees Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree	
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Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree	
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Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree	
Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree Leaf at same level	
Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree Right View of Binary Tree IzigZag Tree Traversal Create a mirror tree from the given binary tree Leaf at same level Check for Balanced Tree	
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Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree Leaf at same level Check for Balanced Tree Transform to Sum Tree	
Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree Leaf at same level Check for Balanced Tree Transform to Sum Tree Check if Tree is Isomorphic.	
Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree Leaf at same level Check for Balanced Tree Transform to Sum Tree Check if Tree is Isomorphic. Same Tree	
Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree Leaf at same level Check for Balanced Tree Transform to Sum Tree Check if Tree is Isomorphic. Same Tree Construct Binary Tree from Preorder and Inorder Traversal Height of Binary Tree.	
Binary Trees	Minimum Cost to cut a board into squares Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree Leaf at same level Check for Balanced Tree Transform to Sum Tree Check if Tree is Isomorphic. Same Tree Construct Binary Tree from Preorder and Inorder Traversal Height of Binary Tree. Diameter of a Binary Tree	
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Binary Search Trees	Minimum element in BST.	
Binary Search Trees	Predecessor and Successor	
Binary Search Trees	Check whether BST contains Dead End	
Binary Search Trees Binary Search Trees	Binary Tree to BST. Kth largest element in BST.	
Binary Search Trees	Validate Binary Search Tree	
Binary Search Trees	Kth Smallest Element in a BST	
Binary Search Trees	Delete Node in a BST	
Binary Search Trees	Flatten BST to sorted list	
Binary Search Trees	Preorder to Postorder	
Binary Search Trees	Count BST nodes that lie in a given range.	
Binary Search Trees	Populate Inorder Successor for all Nodes	
Binary Search Trees	Convert Normal BST to Balanced BST	
Binary Search Trees	Merge two BSTs	
Binary Search Trees	Given n appointments, find all conflicting appointments	
Binary Search Trees	Replace every element	
Binary Search Trees	Construct BST from given preorder traversal	
Binary Search Trees	Find median of BST in O(n) time and O(1) space	
Binary Search Trees	Largest BST in a Binary Tree	Important
Heaps & Hashing	Choose k array elements such that difference of maximum and minimum is minimized	
Heaps & Hashing	Heap Sort	
Heaps & Hashing	Top K Frequent Elements	
Heaps & Hashing	k largest elements in an array	
Heaps & Hashing	Next Greater Element	
Heaps & Hashing	K'th Smallest/Largest Element in Unsorted Array	
Heaps & Hashing	Find the maximum repeating number in O(n) time and O(1) extra space	
Heaps & Hashing	K-th smallest element after removing some integers from natural numbers	
Heaps & Hashing	Find k closest elements to a given value	
Heaps & Hashing	K'th largest element in a stream	
Heaps & Hashing	Connect Ropes	
Heaps & Hashing	Cuckoo Hashing	
Heaps & Hashing	Itinerary from a List of Tickets	
Heaps & Hashing	Largest Subarray with 0 Sum	
Heaps & Hashing	Count distinct elements in every window of size_k	
Heaps & Hashing	Group Shifted Strings Merge K Sorted lists	
Heaps & Hashing Heaps & Hashing	Merge K Sorted lists Find Median from Data Stream	
Heaps & Hashing	Sliding Window Maximum	
Heaps & Hashing	Find the smallest positive number	
Heaps & Hashing	Find Surpasser Count of each element in array.	
Heaps & Hashing	Tournament Tree and Binary Heap	
Heaps & Hashing	Check for palindrome	
Heaps & Hashing	Length of the largest subarray with contiguous elements	
Heaps & Hashing	Palindrome Substring Queries	
Heaps & Hashing	Subarray distinct elements	
Heaps & Hashing	Find the recurring function	
Heaps & Hashing	K maximum sum combinations from two arrays	
Graphs	238	
Graphs	DES DES	
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 Graphs	Oliver and the Game Minimum time taken by each job to be completed given by a Directed Acyclic Graph	
Graphs	Minimum time taken by each job to be completed given by a Directed Acyclic Graph 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	<u>Snakes and Ladders</u>	
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	Important
Graphs	Total number spanning trees graph	
Graphs	Travelling Salesman	Important
Graphs	Find longest path directed acyclic graph	
Graphs	Two Clique Problem	
Graphs	Minimise the cash flow	
	Chinese postman	
Graphs	· · · · · · · · · · · · · · · · · · ·	
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	
ines	Imperience a notice birectory	
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	Google Interview Qs	
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		

DSA by Shradha Didi & Aman Bhaiya

	Meet us on Youtube (Apna College)	
Easy	Ideal Time : 5-10 mins	
Medium	Ideal Time : 15-20 mins	
Hard	Ideal Time : 40-60 mins (based on Qs)	
Topics	Question	Remarks
Strings	Edit Distance	use Dynaming Programming (if possible)
Searching & Sorting	Sort a Nearly Sorted (or K sorted) Array	
Searching & Sorting	How to Efficiently Sort a Big List Dates in 20's	
Searching & Sorting	find a repeating and a missing number	
Searching & Sorting	sort array according count set bits	
Searching & Sorting	Minimum Swaps to Make Two Array Identical	
Searching & Sorting	Insert in Sorted and Non-Overlapping Interval Array	
Searching & Sorting	3-Way QuickSort	
Backtracking	Find if There is a Path of More Than k Length From a Source	
Backtracking	Match a Pattern and String without Using Regular Expressions	
Linked List	Josephus Circle implementation using STL list	
Linked List	Find a triplet from three linked lists with sum equal to a given Numbe	r
Linked List	Pair with given sum	
Linked List	Select a random node from a singly linked list	
Linked List	First non repeating character	
Stacks 9 Ougues	Implement Stack using Queue or heap	
Stacks & Queues Stacks & Queues	Implement Stack using Queue or heap Sum of minimum-maximum elements subarrays size-k	
Stacks & Queues	Minimum time required so that all oranges become rotten	
Stacks & Queues	Efficiently implement k-queues single array.	
Stacks & Queues	Efficiently implement x-queues single array.	
Greedy	Maximize array sum after k-negation operations	
Greedy	Program for shortest job first or sif-cpu scheduling set 1 non-preempt	tive
Binary Trees	Check Mirror in N-ary tree	
Binary Trees	Maximum sum of nodes in Binary tree such that no two are adjacent	
	and a second street of the sec	
Binary Search Trees	Brothers From Different Roots	
Heaps & Hashing	Check the condition	
Heaps & Hashing	Check if an array can be divided into pairs whose sum is divisible by k	
Heaps & Hashing	Design a effective DSA	
Heaps & Hashing	Find number of Employees Under every Manager	
Heaps & Hashing	Pancake Sorting	

Graphs	Bride in a graph	
Graphs	Seven Bridges of Königsberg	
Graphs	Minimum edges to reverse to make path from a source to a destination	
DP	Maximum Sum Rectangle	
DP	Interleaved Strings	
DP	Painting the Fence	
DP	Largest independent Set	
DP	Minimum cost to fill given weight in a bag	
DP	Boolean Parenthesization	
DP	Maximum Profit	
DP	Palindromic Partitioning	