	Meet us on Youtube (Apna Colle		olve this she
Facu	Ideal Time : 5-10 mins		
Easy Medium Hard	Ideal Time : 15-20 mins	5 Questions each Day	
Hard	Ideal Time : 40-60 mins (based on Qs) 88 Qs		
Topics	Question (375)	Companies Re	emarks
Arrays	Maximum and Minimum Element in an Array	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
Arrays Arrays	Reverse the Array. Maximum-Subarray	Infosys Moonfrog Labs Microsoft + Facebook Interview Qs use Kada	ne's Algori
Arrays	Contains Duplicate	Amazon Interview Qs	
Arrays	Chocolate Distribution Problem	Amazon Interview Qs	
Arrays Arrays	Search an Element in a Sorted and Pivoted Array Next Permutation	Microsoft Google Adobe Amazon D-E-Shaw Flipkart Hike Intuit MakeMyTrip Pay Uber + Goldman Sachs + Adobe Interview Qs	
Arrays	Best time to Buy and Sell Stock	Amazon D-E-Shaw Directi Flipkart Goldman Sachs Intuit MakeMyTrip Microsoft	
Arrays	Repeat and Missing Number Array	Amazon Interview Qs	
Arrays Arrays	Kth-Largest Element in an Array Trapping Rain Water	Amazon Microsoft Walmart Adobe Samsung Interview Qs	
Arrays	Product of Array Except Self	Microsoft + Facebook Interview Qs	
Arrays	Maximum Product Subarray	Amazon D-E-Shaw Microsoft Morgan Stanley OYO Rooms Google	
Arrays	Find Minimum in Rotated Sorted Array Search in Potated Sorted Array	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet	
Arrays Arrays	Search in Rotated Sorted Array 3Sum	Microsoft + Google + Apple Interview Qs Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet	
Arrays	Container With Most Water	Flipkart + Dunzo Interview Qs	
Arrays	Given Sum Pair	Infosys + Amazon + Flipkart Interview Qs	
Arrays Arrays	Kth - Smallest Element Merge Overlapping Intervals	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Google Interview Qs	
Arrays	Find Minimum Number of Merge Operations to Make an Array Palindrome	Amazon	
Arrays	Given an Array of Numbers Arrange the Numbers to Form the Biggest Number	Barclays Interview Qs	
Arrays	Space Optimization Using Bit Manipulations	Amazon Spandoal Missocoft	
Arrays Arrays	Subarray Sum Divisible K Print all Possible Combinations of r Elements in a Given Array of Size n	Snapdeal Microsoft Amazon	
Arrays	Mo's Algorithm	Microsoft	
Strings	Valid Palindrome	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho	
Strings	Valid Anagram	Nagarro Media.net Directi Google Adobe Flipkart	/:E :!
Strings Strings	Valid parentheses Remove Consecutive Characters	Google Interview Qs use Stack Samsung + Adobe	ks (if possil
Strings	Longest Common Prefix	Adobe + Grofers + Dunzo Interview Qs	
Strings	Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence	Adobe	
Strings Strings	Print all the Duplicates in the Input String Longest Substring without Repeating Characters	Ola + Amdocs IQ Morgan Stanley + Amazon IQ	
Strings	Longest Repeating Character Replacement	Amazon Google	
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 Adobe + Goldman Sachs + Uber	
Strings	Count Palindromic Subsequences	Myntra Interview Qs	
Strings	Smallest Window in a String Containing all the Characters of Another String	Microsoft + Amazon IQ	
Strings Strings	Wildcard String Matching Longest Prefix Suffix	Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ	
Strings	Rabin-Karp Algorithm for Pattern Searching	Microsoft	
Strings	Transform One String to Another using Minimum Number of Given Operation	Directi	
Strings Strings	Minimum Window Substring Boyer Moore Algorithm for Pattern Searching	Amazon Google MakeMyTrip Streamoid Technologies Microsoft Media.net Atla Amdocs	
Strings	Word Wrap	Microsoft use Dynami	ng Prograr
2D Arrays	Zigzag (or diagonal) Traversal of Matrix	Amazon	
2D Arrays	Set Matrix Zeroes	Amazon Microsoft	
2D Arrays	Spiral Matrix Rotate Image	Flipkart + Apple + Societe Generale IQ Microsoft Paytm Samsung Adobe	
2D Arrays 2D Arrays	Rotate Image Word Search	Microsoft Paytm Samsung Adobe Google + Ola + Goldman Sachs IQ	
2D Arrays	Find the Number of Islands Set 1 (Using DFS)		about DFS
2D Arrays	Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'	Google	
2D Arrays 2D Arrays	Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix Create a Matrix with Alternating Rectangles of O and X	MAQ Software Microsoft VMWare MAQ VMWare	
2D Arrays	Maximum Size Rectangle of all 1s	Amazon Microsoft	
arching & Sorting	Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K counting sort	Samsung Samsung+ Morgan Stanley+ Spandeal + FPAM Systems	
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arching & Sorting arching & Sorting	Piar with given difference majority element	Amazon Visa Amazon+ Google	
arching & Sorting	count triplets with sum smaller that a given value	Amazon SAP Labs	
arching & Sorting	Maximum Sum Subsequence with no adjacent elements	Amazon FactSet Oxigen Wallet OYO Rooms Paytm Walmart Yahoo Adobe Flipka	
arching & Sorting arching & Sorting	Merge Sorted Arrays using O(1) Space Inversion of Array	Amdocs Brocade Goldman Sachs Juniper Networks Linkedin Microsoft Quikr Sr Adobe Amazon BankBazaar Flipkart Microsoft Myntra MakeMyTrip	
arching & Sorting	Find Duplicates in O(n) Time and O(1) Extra Space	Amazon D-E-Shaw Flipkart Paytm Qualcomm Zoho	
arching & Sorting	Radix Sort	Amazon+ Microsoft	
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arching & Sorting	Find Four Elements that Sum to a Given Value	Adobe Amazon Google Microsoft OYO Rooms	
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arching & Sorting	Aggressive Cows	Adobe	
arching & Sorting	Allocate Minimum number of Pages	Google Infosys Codenation Amazon Microsoft	
arching & Sorting	Minimum Swaps to Sort	Amazon + Google	

Backtracking Backtracking	Backtracking Set 2 Rat in a Maze	Microsoft Amazon
Ducktrucking	Combinational Sum	Adobe Amazon Microsoft
Backtracking	Crossword-Puzzle	Microsoft
Backtracking	Longest Possible Route in a Matrix with Hurdles	Microsoft
Backtracking	Printing all solutions in N-Queen Problem	Accolite Amazon Amdocs D-E-Shaw MAQ Software Twitter Visa Microsoft
Backtracking	Solve the Sudoku	Amazon Directi Flipkart MakeMyTrip MAQ Software Microsoft Ola Cabs Oracle F
Backtracking	Partition Equal Subset Sum	Amazon + Adobe + Accolite + Traveloka
Backtracking	M Coloring Problem	Amazon
Backtracking	Knight Tour	IBM
Backtracking	Soduko	Amazon + Adobe + Accolite + Traveloka
Backtracking	Remove Invalid Parentheses	Uber
Backtracking	Word Break Problem using Backtracking	
Backtracking	Print all Palindromic Partitions of a String	Facebook Amazon Microsoft
Backtracking	Find Shortest Safe Route in a Path with Landmines	Facebook Amazon Microsoft
Backtracking	Partition of Set into K Subsets with Equal Sum	Amazon
Backtracking	Backtracking set-7 hamiltonian cycle	Amazon
Backtracking	tug-of-war	Google
Backtracking	Maximum Possible Number by doing at most K swaps	Amazon + Adobe + Accolite + Traveloka
Backtracking	Backtracking set-8 solving cryptarithmetic puzzles	Goldman Sachs
Backtracking	Find paths from corner cell to middle cell in maze	Meta
Backtracking	Arithmetic Expressions	Flipkart
Linked List	Reverse Linked List	Sprinklr
Linked List	Linked List Cycle	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAQ S
Linked List	Merge Two Sorted Lists	Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Microsoft OATS
Linked List	Delete without Head node Remove duplicates from an uncerted linked list	Amazon Goldman Sachs Kritikal Solutions Microsoft Samsung Visa
Linked List Linked List	Remove duplicates from an unsorted linked list Sort a linked list of 0s-1s-or-2s	Amazon Intuit Microsoft Amazon MakeMyTrin
Linked List Linked List	Sort a linked list of Us-1s-or-2s Multiply two numbers represented linked lists	Microsoft Amazon MakeMyTrip Amazon
Linked List Linked List	Remove nth node from end of list	Accolite Adobe Amazon Citicorp Epic Systems FactSet Hike MAQ Software Mon
Linked List	Reorder List	Accounte Adobe Amazon Citicorp Epic Systems FactSet Hike MAQ Software Mont
Linked List	Detect and remove loop in a linked list	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAQ S
Linked List	Write a Function to get the Intersection Point of two Linked Lists	Accolite Amazon D-E-shaw Hike Lybrate Mahindra Comviva Makemy mp MAQ : Amazon
Linked List	Flatten a linked list with next and child pointers	Google
Linked List	Linked list in zig-zag fashion	Micorsoft
Linked List	Reverse a doubly linked list	Walmart
Linked List	Delete nodes which have a greater value on right side	Amazon
Linked List	Segregate even and odd Elements in a Linked List	Walmart
Linked List	Point to next higher value node in a linked list with an Arbitrary Pointer	GeekyAnts
Linked List	Rearrange a given linked list in place	Ola Uber
Linked List	Sort Biotonic Doubly Linked Lists	Morgan Stanley
Linked List	Merge K Sorted Lists	Microsoft+ Ola+ eBay
Linked List	Merge sort for linked list	Accolite Adobe Amazon MAQ Software Microsoft Paytm Veritas Important
Linked List	Quicksort on singly-linked list	Paytm Important
Linked List	Sum of two linked lists	Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm Sn
Linked List	Flattening a linked list	24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Pa
Linked List	Clone a linked list with next and random Pointer	Triology
Linked List	Subtract two numbers represented as linked lists	Amazon Goldman Sachs
Stacks & Queues	Implement two stacks in an Array	24*7 Innovation Labs Microsoft Samsung Snapdeal
Stacks & Queues	Evaluation of Postfix Expression	Amazon + Google + Facebook
Stacks & Queues	Implement Stack using Queues	Facebook
Stacks & Queues	Queue Reversal	Amazon + Morgain Stanley
Stacks & Queues	Implement Stack Queue using Deque	Microsoft +Atlassian
Stacks & Queues	Reverse first k elements of queue	Microsoft + Amdocs
Stacks & Queues	Design Stack with Middle Operation	MaQ Software
Stacks & Queues Stacks & Queues	Infix to Postfix Design and Implement Special stack	Amazon + Samsung + Paytm + Vmware inc Amazon Google Microsoft Visa Goldman Sachs
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		Google Microsoft
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	The state of the s	
Greedy Greedy	Minimize Cash Flow among a given set of friends who have borrowed money from each other Minimum Cost to cut a board into squares	Maccafe
diccuy	Imminum cost to cut a board into signarcs	indecare .
Binary Trees	Maximum Depth of Binary Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMyTri
Binary Trees	Reverse Level Order Traversal	Amazon + Microsoft + flipkart + Adobe
Binary Trees	Subtree of Another Tree	Amazon + Microsoft + Facebook
Binary Trees	Invert Binary Tree	Amazon Hike
Binary Trees	Binary Tree Level Order Traversal	Accolite Adobe Amazon Cisco D-E-Shaw Flipkart
Binary Trees Binary Trees	Left View of Binary Tree Right View of Binary Tree	Microsoft + Adobe + Cisco Networking Academy Amdocs
Binary Trees	ZigZag Tree Traversal	Amazon Cisco FactSet Hike Snapdeal Walmart Microsoft Flipkart
Binary Trees	Create a mirror tree from the given binary tree Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Standard Control of the Great Accolite	
Binary Trees	Leaf at same level	Amazon
Binary Trees	Check for Balanced Tree	Amazon Walmart Microsoft
Binary Trees Binary Trees	Transform to Sum Tree Check if Tree is Isomorphic	Amazon FactSet Microsoft Samsung Walmart Amazon Microsoft
Binary Trees	Same Tree	Amazon Microsoft Flipkart
Binary Trees	Construct Binary Tree from Preorder and Inorder Traversal	Accolite Amazon Microsoft
Binary Trees	Height of Binary Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMyTri
Binary Trees Binary Trees	Diameter of a Binary Tree Top View of Binary Tree	Amazon Microsoft OYO Rooms Microsoft + Adobe + Expedia Group
Binary Trees	Bottom View of Binary Tree	DE Shaw India
Binary Trees	Diagonal Traversal of Binary Tree	Amazon Microsoft
Binary Trees	Boundary Traversal of binary tree	Accolite Amazon FactSet Hike Kritikal Solutions
Binary Trees	Construct Binary Tree from String with Brackets	Microsoft Morgan Stanley OYO Rooms Payu Samsung Snapdeal Flipkart
Binary Trees Binary Trees	Minimum swap required to convert binary tree to binary search tree Duplicate subtree in Binary Tree	Adobe Amazon Google
Binary Trees	Check if a given graph is tree or not	Microsoft Amazon
Binary Trees	Lowest Common Ancestor in a Binary Tree	Accolite Amazon American Express Cisco Expedia Flipkart MakeMyTrip Microso
Binary Trees	Min distance between two given nodes of a Binary Tree	Amazon Linkedin MakeMyTrip Ola Cabs Qualcomm Samsung
Binary Trees Binary Trees	Duplicate Subtrees Kth ancestor of a node in binary tree	Ola Josh Technology Group
Binary Trees	Binary Tree Maximum Path Sum	Samsung + Facebook
Binary Trees	Serialize and Deserialize Binary Tree	Flipkart InMobi Linkedin MAQ Software Microsoft Paytm Quikr Yahoo
Binary Trees	Binary Tree to DLL	Accolite Amazon Goldman Sachs Microsoft Morgan Stanley Salesforce Snapdea
Binary Trees	Print all k-sum paths in a binary tree	Accolite Amazon Goldman Sachs
Binary Search Trees	Lowest Common Ancestor of a Binary Search Tree	Accolite Amazon Flipkart MAQ Software Microsoft Samsung Synopsys
Binary Search Trees	Binary Search Tree Set 1 (Search and Insertion)	Accolite Amazon Microsoft Paytm Samsung Microsoft
Binary Search Trees Binary Search Trees	Minimum element in BST Predecessor and Successor	Google + Adobe + Goladman Sachs + Direct
Binary Search Trees	Check whether BST contains Dead End	Walmart
Binary Search Trees	Binary Tree to BST	HSBC
Binary Search Trees	Kth largest element in BST	Accolite Amazon Samsung SAP Labs Microsoft
Binary Search Trees Binary Search Trees	Validate Binary Search Tree Kth Smallest Element in a BST	OYO Rooms Qualcomm Samsung Snapdeal VMWare Walmart Wooker Amazon Accolite Amazon Google
Binary Search Trees	Delete Node in a BST	Adobe Barclays
Binary Search Trees	Flatten BST to sorted list	Microsoft
Binary Search Trees	Preorder to Postorder	Amazon Linkedin Flipkart
Binary Search Trees Binary Search Trees	Count BST nodes that lie in a given range. Populate Inorder Successor for all Nodes	D-E-Shaw Google Sap labs
Binary Search Trees	Convert Normal BST to Balanced BST	Paytm
Binary Search Trees	Merge two BSTs	DE Shaw India
Binary Search Trees	Given n appointments, find all conflicting appointments	Samsung
Binary Search Trees Binary Search Trees	Replace every element Construct BST from given preorder traversal	Samsung Adobe Morgan Stanley Microsoft
Binary Search Trees	Find median of BST in O(n) time and O(1) space	Amazon
Binary Search Trees	Largest BST in a Binary Tree	Amazon D-E-Shaw Samsung Microsoft Flipkart Important
Heaps & Hashing	Choose k array elements such that difference of maximum and minimum is minimized	
Heaps & Hashing	Heap Sort	Adobe
Heaps & Hashing	Top K Frequent Elements	Amazon Microsoft Amazon Microsoft Walmart Adobe
Heaps & Hashing Heaps & Hashing	k largest elements in an array Next Greater Element	Amazon + Microsoft + Flipkart + Adobe
Heaps & Hashing	K'th Smallest/Largest Element in Unsorted Array	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe
Heaps & Hashing	Find the maximum repeating number in O(n) time and O(1) extra space	Accolite Amazon
Heaps & Hashing Heaps & Hashing	K-th smallest element after removing some integers from natural numbers Find k closest elements to a given value	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon OYO Rooms
Heaps & Hashing	K'th largest element in a stream	Amazon Cisco Hike OYO Rooms Walmart Microsoft Flipkart
Heaps & Hashing	Connect Ropes	Amazoon + Oyo + Goldman Sachs
Heaps & Hashing	Cuckoo Hashing	Amaxon
Heaps & Hashing Heaps & Hashing	Largest Subarray with 0 Sum	Microsoft + Ola + eBay Amazon MakeMyTrip Microsoft
Heaps & Hashing	Count distinct elements in every window of size k	Accolite Amazon Microsoft Accolite Amazon Microsoft
Heaps & Hashing	Group Shifted Strings	Oracle
Heaps & Hashing	Merge K Sorted lists	Microsoft + Ola + eBay
Heaps & Hashing Heaps & Hashing	Find Median from Data Stream Sliding Window Maximum	Adobe Amazon Apple Belzabar D-E-Shaw Facebook Flipkart Google Intuit Micro Amazon Directi Flipkart Microsoft Google
Heaps & Hashing	ZIZZII O TIII INCHI INCAILIUIII	Accolite Amazon Samsung Snapdeal
Heaps & Hashing	Find the smallest positive number	
	Find the smallest positive number Find Surpasser Count of each element in array	Amazon Morgan Stanley Ola Cabs SAP Labs
Heaps & Hashing	Find Surpasser Count of each element in array Tournament Tree and Binary Heap	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft
Heaps & Hashing Heaps & Hashing	Find Surpasser Count of each element in array Tournament Tree and Binary Heap Check for palindrome	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho
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Heaps & Hashing	Find Surpasser Count of each element in array. Tournament Tree and Binary Heap Check for palindrome Length of the largest subarray with contiguous elements Palindrome Substring Queries Subarray distinct elements Find the recurring function	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho Amazon Intuit Microsoft Amazon Morgan Stanley Ola Cabs SAP Labs Microsoft + Ola + eBay MAQ Software
Heaps & Hashing	Find Surpasser Count of each element in array. Tournament Tree and Binary Heap Check for palindrome Length of the largest subarray with contiguous elements Palindrome Substring Queries Subarray distinct elements	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho Amazon Intuit Microsoft Amazon Morgan Stanley Ola Cabs SAP Labs Microsoft + Ola + eBay
Heaps & Hashing	Find Surpasser Count of each element in array. Tournament Tree and Binary Heap Check for palindrome Length of the largest subarray with contiguous elements Palindrome Substring Queries Subarray distinct elements Find the recurring function	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho Amazon Intuit Microsoft Amazon Morgan Stanley Ola Cabs SAP Labs Microsoft + Ola + eBay MAQ Software
Heaps & Hashing Graphs	Find Surpasser Count of each element in array. Tournament Tree and Binary Heap Check for palindrome Length of the largest subarray with contiguous elements Palindrome Substring Queries Subarray distinct elements Find the recurring function K maximum sum combinations from two arrays	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho Amazon Intuit Microsoft Amazon Morgan Stanley Ola Cabs SAP Labs Microsoft + Ola + eBay MAQ Software Amazon Samsung + Delhivery + SAP Labs
Heaps & Hashing Graphs	Find Surpasser Count of each element in array. Tournament Tree and Binary Heap Check for palindrome Length of the largest subarray with contiguous elements Palindrome Substring Queries Subarray distinct elements Find the recurring function K maximum sum combinations from two arrays BES DES	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho Amazon Intuit Microsoft Amazon Morgan Stanley Ola Cabs SAP Labs Microsoft + Ola + eBay MAQ Software Amazon Samsung + Delhivery + SAP Labs Samsung + Intuit + Goldman Sachs
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Heaps & Hashing Graphs Graphs Graphs Graphs Graphs Graphs Graphs	Find Surpasser Count of each element in array. Tournament Tree and Binary Heap. Check for palindrome. Length of the largest subarray with contiguous elements. Palindrome Substring Queries. Subarray distinct elements. Find the recurring function. K maximum sum combinations from two arrays. BES. DES. Elood Fill Algorithm. Number of Triangles. Detect cycle in a graph. Detect cycle in an undirected graph.	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho Amazon Intuit Microsoft Amazon Morgan Stanley Ola Cabs SAP Labs Microsoft + Ola + eBay MAQ Software Amazon Samsung + Delhivery + SAP Labs Samsung + Intuit + Goldman Sachs Google + Adobe + Apple IBM Lenksart Samsung
Heaps & Hashing Graphs Graphs Graphs Graphs Graphs Graphs	Find Surpasser Count of each element in array. Tournament Tree and Binary Heap. Check for palindrome. Length of the largest subarray with contiguous elements. Palindrome Substring Queries. Subarray distinct elements. Find the recurring function. K maximum sum combinations from two arrays. BES. DES. Flood Fill Algorithm. Number of Triangles. Detect cycle in a graph.	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho Amazon Intuit Microsoft Amazon Morgan Stanley Ola Cabs SAP Labs Microsoft + Ola + eBay MAQ Software Amazon Samsung + Delhivery + SAP Labs Samsung + Intuit + Goldman Sachs Google + Adobe + Apple IBM Lenksart

Graphs Graphs	Number of Operations to Make Network Connected Dijkstra's shortest path algorithm	Samsung Amazon
Graphs	Topological Sort	Amazon + Google + Flipkart + Oyo + Fipkart + Samsung
Graphs	Oliver and the Game	Sharechat + Directi
Graphs 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	Amazon Directi + Sharechat
Graphs	Find the number of islands	Razorpay
Graphs	Prim's Algo.	Visa
Graphs	Negative Weighted Cycle	Amazon
Graphs Graphs	Floyd Warshall Graph Coloring	Google + Uber Morgan Stanley
Graphs	Snakes and Ladders	Goldman Sachs +Makemytrip
Graphs	Kosaraju's Theorem	Paytm
Graphs Graphs	Journey to moon Vertex Cover	Lenksart + Payload Intuit
Graphs	M Coloring Problem	Uber
Graphs	Cheapest Flights Within K Stops	Uber + Paypal
Graphs	Find if there is a path of more than k length from a source	Cisco + Intuit
Graphs Graphs	Bellman Ford Bipartitie Graph	Sharechat + Directi Microsoft Flipkart
Graphs	Word-Ladder	Microsoft
Graphs	Allen Dictionary	Samsung
Graphs Graphs	Kruskals MST Total number spanning trees graph	Amazon Cisco Samsung Important Amazon Cisco Samsung Microsoft Flipkart
Graphs	Travelling Salesman	Google + Microsoft + Opera Important
Graphs	Find longest path directed acyclic graph	Google
Graphs	Two Clique Problem Minimire the cach flow	Microsoft
Graphs Graphs	Minimise the cash flow Chinese postman	Intuit + Uber Intuit
Graphs	Water Jug	Intuit + Uber
Graphs	Water Jug 2	MakeMyTrip MAQ Software
Tries	Construct a trie from scratch	Accolite Amazon D-E-Shaw FactSet Microsoft
Tries	Print unique rows in a given boolean matrix	Amazon Zoho
Tries Tries	Word Break Problem (Trie solution) Given a sequence of words, print all anagrams together	Amazon Google Hike IBM MAQ Software Microsoft Walmart Zoho Amazon D-E-Shaw Goldman Sachs Morgan Stanley Snapdeal Microsoft
Tries	Find shortest unique prefix for every word in a given list	Microsoft Google
Tries	Implement a Phone Directory	Amazon + Microsoft + Snapdeal
DP	Knapsack with Duplicate Items	Amazon
DP	BBT counter	Microsoft
DP DP	Reach a given score Maximum difference of zeros and ones in binary string	Samsung Ola
DP	Climbing Stairs	Intuit
DP	Permutation Coefficient	Amazon
DP	Longest Repeating Subsequence	Google + Amazon
DP DP	Pairs with specific difference Longest subsequence-1	Ola Amazon
DP	Coin Change	Microsoft+ Samsung + Barclays + Apple + Adobe
DP	LIS	Amazon + Google + Facebook + Fidelity International
DP	Longest Common Subsequence	Siemens + Amazon + Google
DP DP	Word Break Combination Sum IV	Amazon + Google + Microsoft + Walmart + Apple + IBM Adobe Amazon Microsoft
DP	House Robber	Apple + Uber
DP	Houe Robber 2	Arrays Dynamic Programming
DP DP	Decode Ways Unique Paths	Adobe + Uber
DP	Jumps Game	Google + Microsoft Facebook Amazon Microsoft Google
DP	Knapsack Problem	Amazon Directi Flipkart GreyOrange Microsoft Mobicip Morgan Stanley Oracle
DP	nCr	Google
DP	Catalan Number	Amazon + Google
DP DP	Edit Distance Subset Sum.	Google + Goldman Sachs + Citrix Amazon + Google
DP	Gold mine	Samsung
DP	Assembly Line Scheduling	Goldman Sachs
DP DP	Maximize The Cut Segments Maximize The Cut Segments	Amazon OYO Rooms Microsoft
DP DP	Maximum sum increasing subsequence. Count all subsequences having product less than K	Amazon Morgan Stanley Microsoft Goldman Sachs
DP	Maximum sum increasing subsequence	Amazon Morgan Stanley Microsoft
DP	Egg dropping puzzle	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Software My
DP	Max length chain	Amazon Microsoft
DP DP	Largest Square in Matrix Maximum Path Sum	Amazon Samsung Amazon + Microsoft + Oyo + Directi
DP	Minimum Number of Jumps	Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Google Flipkar
DP	Minimum removals from array to make max – min <= K	Amazon Web and Glob
DP DP	Longest Common Substring Partition Equal Subset Sum	Webarch Club Amazon + Accolite + Traveloca + Adobe
DP	Longest Palindromic Subsequnce	Amazon Google
DP	Count Palindromic Subsequences	Myntra
DP DP	Longest Palindromic Substring	Amazon + Microsoft + Samsung + Visa
DP DP	Longest Alternating Sequence Weighted Job Scheduling	Ola Intuit
DP	Coin Game	Salesforce
DP	Coin Game Winner	Ola
DP	Optimal Strategy for a game Word Wran	Google + IBM Microsoft
DP DP	Word Wrap Mobile numeric keypad	Microsoft Amazon Microsoft
DP	Maximum Length of Pair Chain	Amazon Microsoft
DP	Matrix Chain Multiplication	Walmart + Flipkart
DP	Maximum profit by buying and selling a share at most twice	Accolite Amazon Microsoft
DP DP	Optimal BST Largest Submatrix with sum 0	Google Amazon MakeMyTrip Microsoft
DP	Largest area rectangular sub-matrix with equal number of 1's and 0's	Amazon Directi Intuit MakeMyTrip Microsoft Samsung Google Flipkart
it Manipulation	Count set bits in an integer	Adobe Apple

Bit Manipulation	Program to find whether a no is power of two	Adobe	
Bit Manipulation	Find position of the only set bit	Microsoft	
Bit Manipulation	Count number of bits to be flipped to convert A to B	Maq Software	
Bit Manipulation	Count total set bits in all numbers from 1 to n	Microsoft	
Bit Manipulation	Copy set bits in a range	Facebook	
Bit Manipulation	Calculate square of a number without using *, / and pow().	Amazon	
Bit Manipulation	Divide two integers without using multiplication, division and mod operator	Microsoft	
Bit Manipulation	Power Set	Google + Adobe + Paytm	
Segment Trees	Range Sum Query - Immutable		
Segment Trees	Range Minimum Query	Google Interview Qs	
Segment Trees	Range Sum Query - Mutable	Alibaba	
Segment Trees	Create Sorted Array through Instructions	Samsung + Accolite	
Segment Trees	Count of Range Sum	Walmart	
Segment Trees	Count of Smaller Numbers After Self	Codenation Google	

DSA by Shradha Didi & Aman Bhaiya

Meet us on Youtube (Apna College)

<u>Meet us on Youtube (Apna College)</u>		
Easy	Ideal Time : 5-10 mins	
Medium	Ideal Time : 15-20 mins	
Hard	Ideal Time : 40-60 mins (based on Qs)	
11010	radai iline i io do ilinio (adoca dii Qo)	
Topics	Question	Remarks
Strings	Edit Distance	use Dynaming Programming (if possible)
Convehing Q Courting	Court of New Work of (our Koourt of) Aurous	
Searching & Sorting	Sort a Nearly Sorted (or K sorted) Array	
Searching & Sorting Searching & Sorting	How to Efficiently Sort a Big List Dates in 20's find a repeating and a missing number	
Searching & Sorting 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 Number	Ĺ
Linked List	Pair with given sum	
Linked List	Select a random node from a singly linked list	
Linked List	First non repeating character	
Stacks & Queues	Implement Stack using Queue or heap	
Stacks & Queues	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	
-		
Greedy	Maximize array sum after k-negation operations	:
Greedy	Program for shortest job first or sjf-cpu scheduling set 1 non-preempt	<u>ive</u>
Binary Trees	Check Mirror in N-ary tree	
Binary Trees	Maximum sum of nodes in Binary tree such that no two are adjacent	
Binary Search Trees	Brothers From Different Roots	
-		
Heaps & Hashing	Check the condition Check if an array can be divided into pairs whose sum is divisible by k	
Heaps & Hashing	Check if an array can be divided into pairs whose sum is divisible by k	
Heaps & Hashing Heaps & Hashing	Design a effective DSA Find number of Employees Under every Manager	
Heaps & Hashing	Pancake Sorting	
Ticaps & Hasining	- STIGNIC SOLVING	
Graphs	Bride in a graph	
Graphs	Seven Bridges of Königsberg	
Graphs	Minimum edges to reverse to make path from a source to a destination	<u>on</u>

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