Easy Medium Hard Topics Arrays	Meet us on Youtube (Apna Collection Ideal Time: 5-10 mins Ideal Time: 15-20 mins Ideal Time: 40-60 mins (based on Qs) 88 Qs		How to solve this shee
Medium Hard Topics	Ideal Time : 15-20 mins		
Hard Topics			
·		5 Questions each Day	
Arrays	Question (375)	Companies	Remarks
	Maximum and Minimum Element in an Array.	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
Arrays	Reverse the Array	Infosys Moonfrog Labs	
Arrays	Maximum-Subarray Control of Development	Microsoft + Facebook Interview Qs	use Kadane's Algorith
Arrays Arrays	Contains Duplicate Chocolate Distribution Problem	Amazon Interview Qs Amazon Interview Qs	
Arrays	Search in Rotated Sorted Array.	Microsoft Google Adobe Amazon D-E-Shaw Flipkart Hike Intuit MakeMyTrip Paytm	
Arrays	Next Permutation	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 Ola	
Arrays	Repeat and Missing Number Array	Amazon Interview Qs	
Arrays	Kth-Largest Element in an Array	Amazon Microsoft Walmart Adobe	
Arrays	Trapping Rain Water	Samsung Interview Qs	use auxiliary arrays
Arrays Arrays	Product of Array Except Self Maximum Product Subarray	Microsoft + Facebook Interview Qs Amazon D-E-Shaw Microsoft Morgan Stanley OYO Rooms Google	
Arrays	Find Minimum in Rotated Sorted Array	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet	
Arrays	Find Pair with Sum in Sorted & Rotated Array	Microsoft + Google + Apple Interview Qs	
Arrays	3Sum	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet	
Arrays	Container With Most Water	Flipkart + Dunzo Interview Qs	use 2 pointer approa
Arrays	Given Sum Pair	Infosys + Amazon + Flipkart Interview Qs	
Arrays	Kth - Smallest Element Mercra Overlanding Internals	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
Arrays Arrays	Merge Overlapping Intervals Find Minimum Number of Merge Operations to Make an Array Palindrome	Google Interview Qs Amazon	
Arrays	Given an Array of Numbers Arrange the Numbers to Form the Biggest Number	Amazon Barclays Interview Qs	
Arrays	Space Optimization Using Bit Manipulations	Amazon	
Arrays	Subarray Sum Divisible K	Snapdeal Microsoft	
Arrays	Print all Possible Combinations of r Elements in a Given Array of Size n	Amazon	
Arrays	Mo's Algorithm	Microsoft	
Strings	Valid Palindrome	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho	
Strings	<u>Valid Anagram</u>	Nagarro Media.net Directi Google Adobe Flipkart	
Strings	Valid parentheses	Google Interview Qs	use Stacks (if possibl
Strings	Remove Consecutive Characters	Samsung + Adobe	
Strings Strings	Longest Common Prefix Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence	Adobe + Grofers + Dunzo Interview Qs Adobe	
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	Amazon Google	
Strings	Group Anagrams	Samsung + Adobe + Amazon Interview Qs	
Strings	Longest Palindromic Substring	Microsoft + Google + Samsung + Visa IQ	
Strings	Palindromic Substrings	Microsoft IQ	
Strings	Next Permutation	Adobe + Goldman Sachs + Uber	
Strings	Count Palindromic Subsequences Small of Mandau in a Chrise Containing all the Characters of Apother Otrice	Myntra Interview Qs	
Strings Strings	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching	Microsoft + Amazon I Q Microsoft + Amazon + Ola I Q	
Strings	Longest Prefix Suffix	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	Minimum Window Substring	Amazon Google MakeMyTrip Streamoid Technologies Microsoft Media.net Atlassian	
Strings Strings	Boyer Moore Algorithm for Pattern Searching Word Wrap	Amdocs Microsoft	use Dynaming Program
2D Arrays	Zigzag (or diagonal) Traversal of Matrix	Amazon	
2D Arrays	Set Matrix Zeroes	Amazon Microsoft	
2D Arrays	Spiral Matrix	Flipkart + Apple + Societe Generale IQ	
2D Arrays	Rotate Image Word Sourch	Microsoft Paytm Samsung Adobe Google + Ola + Goldman Sachs IQ	
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'	Google	. COO GOOD DES
2D Arrays	Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix	MAQ Software Microsoft VMWare	
2D Arrays	Create a Matrix with Alternating Rectangles of O and X	MAQ VMWare	
2D Arrays	Maximum Size Rectangle of all 1s	Amazon Microsoft	
earching & Sorting	Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K	Samsung	
earching & Sorting	counting sort	Samsung + Morgan Stanley+ Snapdeal + EPAM Systems	
earching & Sorting	find common elements three sorted arrays	MAQ Software Microsoft VMWare	
earching & Sorting	Searching in an array where adjacent differ by at most k	TCS Amazon	
earching & Sorting	ceiling in a sorted array.	TCS	
earching & Sorting	Piar with given difference	Amazon Visa	
earching & Sorting	majority element	Amazon+ Google	
earching & Sorting	count triplets with sum smaller that a given value Maximum Sum Subsequence with no adjacent elements	Amazon SAP Labs	
earching & Sorting	Maximum Sum Subsequence with no adjacent elements Merge Sorted Arrays using O(1) Space	Amazon FactSet Oxigen Wallet OYO Rooms Paytm Walmart Yahoo Adobe Flipkart Amdocs Brocade Goldman Sachs Juniper Networks Linkedin Microsoft Quikr Snapd	
	Inversion of Array	Amdocs Brocade Goldman Sachs Juniper Networks Linkedin Microsoft Quikr Shapd Adobe Amazon BankBazaar Flipkart Microsoft Myntra MakeMyTrip	
earching & Sorting	Find Duplicates in O(n) Time and O(1) Extra Space	Amazon D-E-Shaw Flipkart Paytm Qualcomm Zoho	
earching & Sorting earching & Sorting	FIND Duplicates III O(II) Time and O(II) Extra Space	Amazon+ Microsoft	
earching & Sorting	Radix Sort		
earching & Sorting earching & Sorting earching & Sorting		Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart	
earching & Sorting	Radix Sort Product of Array except itself Make all Array Elements Equal	Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart Amazon	
earching & Sorting	Radix Sort Product of Array except itself Make all Array Elements Equal Check if Reversing a Sub Array Make the Array Sorted	Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart Amazon Amazon	
earching & Sorting	Radix Sort Product of Array except itself Make all Array Elements Equal Check if Reversing a Sub Array Make the Array Sorted Eind Four Elements that Sum to a Given Value	Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart Amazon Amazon Adobe Amazon Google Microsoft OYO Rooms	
earching & Sorting	Radix Sort Product of Array except itself Make all Array Elements Equal Check if Reversing a Sub Array Make the Array Sorted Find Four Elements that Sum to a Given Value Median of Two Sorted Array with Different Size	Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart Amazon Amazon Adobe Amazon Google Microsoft OYO Rooms Amazon Samsung Microsoft Google	
earching & Sorting earching & Sorting	Radix Sort Product of Array except itself Make all Array Elements Equal Check if Reversing a Sub Array Make the Array Sorted Find Four Elements that Sum to a Given Value Median of Two Sorted Array with Different Size Median of Stream of Integers Running Integers	Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart Amazon Amazon Adobe Amazon Google Microsoft OYO Rooms Amazon Samsung Microsoft Google Amazon + Google	
earching & Sorting	Radix Sort Product of Array except itself Make all Array Elements Equal Check if Reversing a Sub Array Make the Array Sorted Find Four Elements that Sum to a Given Value Median of Two Sorted Array with Different Size	Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart Amazon Amazon Adobe Amazon Google Microsoft OYO Rooms Amazon Samsung Microsoft Google	

Backtracking	Backtracking Set 2 Rat in a Maze	Microsoft Amazon	
Backtracking	Combinational Sum	Adobe Amazon Microsoft	
	Crossword-Puzzle		
Backtracking		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 PayP	
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	
	Find paths from corner cell to middle cell in maze	Meta	
Backtracking			
Backtracking	Arithmetic Expressions	Flipkart	
Haland Hat	December University	Contable	
Linked List	Reverse Linked List	Sprinklr	
Linked List	Linked List Cycle	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAQ Softv	
Linked List	Merge Two Sorted Lists	Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Microsoft OATS Sys	
Linked List	Delete without Head node	Amazon Goldman Sachs Kritikal Solutions Microsoft Samsung Visa	
Linked List	Remove duplicates from an unsorted linked list	Amazon Intuit	
Linked List	Sort a linked list of 0s-1s-or-2s	Microsoft Amazon MakeMyTrip	
Linked List	Multiply two numbers represented linked lists	Amazon	
Linked List	Remove nth node from end of list	Accolite Adobe Amazon Citicorp Epic Systems FactSet Hike MAQ Software Monotype	
Linked List	Reorder List	Amazon Microsoft OYO Rooms Intuit	
Linked List	Detect and remove loop in a linked list	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAQ Softw	
Linked List	Write a Function to get the Intersection Point of two Linked Lists	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		Important
		Paytm	
Linked List	Sum of two linked lists	Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm Snapde	
Linked List	Flattening a linked list	24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Paytr	
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Linked List Stacks & Queues	Cone 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 Using Queue Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Find if an expression has duplicate parenthesis or not Stack permutations check if an array is stack permutation of other Count natural numbers whose permutation greater number Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next Larger Element Distance of nearest cell Rotten-oranges Next smaller element Gircular-tour Efficiently implement k-stacks single array. The celebrity problem Iterative tower of hanoi Find at our that visits all stations Activity selection problem greedy algo Greedy algorithm to find minimum number of coins Minimum sum basolute difference pairs two arrays Find maximum height pyramid from the given array of objects Minimum sum absolute difference pairs two arrays Find maximum equal sum of every three stacks Jobs sequencing problem Greedy algorithm egyptian fraction	Amazon Goldman Sachs 24*7 Innovation Labs Microsoft Samsung Snapdeal Amazon + Google + Facebook Facebook Amazon + Morgain Stanley Microsoft + Ardassian Microsoft Amazon Google Microsoft Visa Goldman Sachs Google Microsoft Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google Visa Amazon Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft Microsoft Flipkart Google + Visa + Apple Visa Flipkar + Facebook Codenation Codenation Flipkart Flipkart Flipkart Google + Visa + Apple Microsoft Flipkart Microsoft Flipkart Microsoft + Uber + Alibaba Uber Facebook Morgan Stanley Flipkart Accolite Amazon Morgan Stanley Flipkart Accolite Amazon Morgan Stanley Flipkart Accolite Amazon Morgan Stanley Flipkart Microsoft + Acolite Microsoft Amazon Flipkart Microsoft Acolite	
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Linked List Stacks & Queues S	Cone 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 Using Queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack. Longest Valid String Find if an expression has duplicate parenthesis or not Stack permutations check if an array is stack permutation of other Count natural numbers whose permutation greater number Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges Next smaller element Circular-tour Efficiently implement k-stacks single array. The celebrity problem Iterative tower of hanoi Find the maximum of minimums for every window size in a given array in cache implementation Find a tour that visits all stations Activity selection problem greedy algo Greedy algorithm to find minimum number of coins Minimum sum absolute difference pairs two arrays Find maximum equal sum of every three stacks Job sequencing problem Greedy algorithm requiring all coins with k extra coins allowed with every coin Find maximum equal sum of every three stacks Job sequencing problem Greedy algorithm to find minimum mumber of digits array-2 Minimum sum absolute difference pairs two arrays Find maximum equal sum of every three stacks Job sequencing problem Greedy algorithm to find minimum fraction Fractional knapsack problem Maximum length chain of pairs Find smallest number with given number of digits and digit sum	Amazon Goldman Sachs 24*7 Innovation Labs Microsoft Samsung Snapdeal Amazon + Google + Facebook Facebook Amazon + Morgain Stanley Microsoft + Ardassian Microsoft + Armdocs Amazon + Samsung + Paytm + Vinware inc Amazon Google Microsoft Visa Goldman Sachs Google Microsoft Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google Visa Amazon Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft Microsoft Flipkart Google + Visa + Apple Visa Flipkar + Facebook Facebook Codenation Codenation Flipkart Flipkart Google + Visa + Apple Microsoft Flipkart Microsoft Flipkart Flipkart Facebook Codenation Codenation Flipkart Flipkart Amazon Microsoft Flipkart Amazon Microsoft + Uber + Alibaba Uber Facebook Morgan Stanley Flipkart Accolite Amazon Morgan Stanley Oracle Paytm Samsung Snapdeal Synopsys Visa M Google Amazon Microsoft Amazon Flipkart Microsoft Amazon Flipkart Microsoft Amazon Flipkart Microsoft Amazon Microsoft Microsoft	
Linked List Stacks & Queues	Cone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Esaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Detque Reverse first elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Find if an expression has duplicate parenthesis or not Stack permutations check if an array is stack permutation of other Count natural numbers whose permutation greater number Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges Next smaller element k-stacks single array. The celebrity problem Iterative tower of hanoi Find the maximum of minimums for every window size in a given array Iru cache implementation Find a tour that visits all stations Activity selection problem greedy algo Greedy algorithm to find minimum number of coins Minimum sum two numbers formed digits array-2 Minimum sum two numbers formed fights array-2 Minimum sum two numbers formed f	Amazon Goldman Sachs 24*7 Innovation Labs Microsoft Samsung Snapdeal Amazon + Google + Facebook Facebook Amazon + Morgain Stanley Microsoft + Artlassian Microsoft + Artlassian Microsoft + Arndocs MaQ Software Amazon + Samsung + Paytrn + Vinware inc Amazon Google Microsoft Visa Goldman Sachs Google Microsoft Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google Visa Amazon Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft Microsoft Flipkart Google + Visa + Apple Visa Flipkar + Facebook Facebook Codenation Codenation Flipkart Flipkart Google + Visa + Apple Microsoft Flipkart Microsoft + Uber + Alibaba Uber Facebook Morgan Stanley Flipkart Accolite Amazon Microsoft Flipkart Accolite Amazon Morgan Stanley Flipkart Accolite Amazon Morgan Stanley Flipkart Accolite Amazon Morgan Stanley Flipkart Microsoft Accolite Microsoft Amazon Flipkart Microsoft Amazon Microsoft Microsoft Amazon Microsoft Microsoft Amazon Flipkart Microsoft Amazon Microsoft Microsof	
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Linked List Stacks & Queues	Cone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Esaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Detque Reverse first elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Find if an expression has duplicate parenthesis or not Stack permutations check if an array is stack permutation of other Count natural numbers whose permutation greater number Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges Next smaller element k-stacks single array. The celebrity problem Iterative tower of hanoi Find the maximum of minimums for every window size in a given array Iru cache implementation Find a tour that visits all stations Activity selection problem greedy algo Greedy algorithm to find minimum number of coins Minimum sum two numbers formed digits array-2 Minimum sum two numbers formed fights array-2 Minimum sum two numbers formed f	Amazon Goldman Sachs 24*7 Innovation Labs Microsoft Samsung Snapdeal Amazon + Google + Facebook Facebook Amazon + Morgain Stanley Microsoft + Artlassian Microsoft + Artlassian Microsoft + Arndocs MaQ Software Amazon + Samsung + Paytrn + Vinware inc Amazon Google Microsoft Visa Goldman Sachs Google Microsoft Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google Visa Amazon Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft Microsoft Flipkart Google + Visa + Apple Visa Flipkar + Facebook Facebook Codenation Codenation Flipkart Flipkart Google + Visa + Apple Microsoft Flipkart Microsoft + Uber + Alibaba Uber Facebook Morgan Stanley Flipkart Accolite Amazon Microsoft Flipkart Accolite Amazon Morgan Stanley Flipkart Accolite Amazon Morgan Stanley Flipkart Accolite Amazon Morgan Stanley Flipkart Microsoft Accolite Microsoft Amazon Flipkart Microsoft Amazon Microsoft Microsoft Amazon Microsoft Microsoft Amazon Flipkart Microsoft Amazon Microsoft Microsof	

Greedy	Find minimum time to finish all jobs with given constraints		
Greedy	lob sequencing using disjoint set union	Samsung	
Greedy	Rearrange characters string such that no two adjacent are same	Amazon Microsoft	
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	Maccafe	
Binary Trees	Maximum Depth of Binary Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMyTrip	
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	Left View of Binary Tree	Microsoft + Adobe + Cisco Networking Academy	
Binary Trees	Right View of Binary Tree	Amdocs	
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Binary Trees	Create a mirror tree from the given binary tree	Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Stanley M	
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Binary Trees	Transform to Sum Tree	Amazon FactSet Microsoft Samsung Walmart	
Binary Trees	Check if Tree is Isomorphic	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 MakeMyTrip	
Binary Trees	Diameter of a Binary Tree	Amazon Microsoft OYO Rooms	
Binary Trees	Top View of Binary Tree	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 Binary Trees	Boundary Traversal of binary tree Construct Binary Tree from String with Brackets	Accolite Amazon FactSet Hike Kritikal Solutions Microsoft Morgan Stanley OYO Rooms Payu Samsung Snapdeal Flipkart	
Binary Trees Binary Trees	Minimum swap required to convert binary tree to binary search tree	Adobe Amazon	
Binary Trees	Duplicate subtree in Binary Tree	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 Microsoft O	
Binary Trees	Min distance between two given nodes of a Binary Tree	Amazon Linkedin MakeMyTrip Ola Cabs Qualcomm Samsung	
Binary Trees	<u>Duplicate Subtrees</u>	Ola	
Binary Trees	Kth ancestor of a node in binary tree	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 Snapdeal	
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	
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Binary Search Trees Heaps & Hashing	Kth largest element in BST Validate Binary Search Tree Kth Smallest Element in a BST Delete Node in a BST Flatten BST to sorted list Preorder to Postorder Count BST nodes that lie in a given range. Populate inorder Successor for all Nodes Convert Normal BST to Balanced BST Merge two BSTs Given n appointments, find all conflicting appointments Replace every element Construct BST from given preorder traversal Find median of BST in OM time and Ot1 space Largest BST in a Binary Tree Choose k array elements such that difference of maximum and minimum is minimized Heap Sort Top k Frequent Elements k largest elements in an array Next Greater Element Kth Smallest/Largest Element in Unsorted Array Find the maximum repeating number in Oth time and Ot1 extra space Kth smallest element after removing some integers from natural numbers Find k closest elements to a given value Kth largest element in a stream Connect Ropes Luckoo Hashing Interary from a List of Tickets Largest Subarray with 0 Sum Count distinct elements in every window of size k Group Shifted Strings Merge K Sorted lists Find Median from Data Stream Sliding Window Maximum Find the smallest positive number Find Surpasser Count of each element in array Tours market positive number Find Surpasser Gount of each element in array Tours market positive number Find Surpasser Substring Oueries	Accolite Amazon Samsung SAP Labs Microsoft OYO Rooms Qualcomm Samsung Snapdeal VMWare Walmart Wooker Amazon Fac Accolite Amazon Google Adobe Bardays Microsoft Amazon Linkedin Flipkart D-E-Shaw Google Sapı labs Paytm DE Shaw India Samsung Samsung Adobe Morgan Stanley Microsoft Amazon Amazon D-E-Shaw Samsung Microsoft Flipkart Adobe Morgan Stanley Microsoft Amazon Amazon D-E-Shaw Samsung Microsoft Flipkart Adobe Amazon Microsoft Walmart Adobe Amazon Microsoft Flipkart + Adobe Amazon Microsoft Walmart Adobe Amazon Microsoft Walmart Adobe Amazon Amazon Google Samsung Accolite Amazon Google Adobe Accolite Amazon Google Adobe Accolite Amazon Google Adobe Amazon Oyo Rooms Amazon Cyo Rooms Walmart Microsoft Flipkart Amazon Oyo Rooms Amazon Google Adobe Amazon Google Adobe Amazon Google Adobe Amazon Microsoft Amazon Amazon Microsoft Amazon Microsoft Amazon Microsoft Amazon Amazon Microsoft Amazon Microsoft Amazon Microsoft Accolite Amazon Microsoft Accolite Amazon Apple Belzabar D-E-Shaw Facebook Flipkart Google Intuit Microsoft Amazon Directi Flipkart Microsoft Google Accolite Amazon Assung Synopsys Walmart Microsoft Amazon Direct Flipkart Microsoft Google Accolite Amazon Samsung Synopsys Walmart Microsoft Amazon Morgan Stanley Ola Cabs SAP Labs Amazon Morgan Stanley Ola Cabs SAP Labs	Important
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Graphs	Rat in a Maze Problem	Sharechat + Directi	
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Graphs	Cheapest Flights Within K Stops	Uber + Paypal	
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Graphs	Two Clique Problem	Microsoft	
Graphs	Minimise the cash flow	Intuit + Uber	
Graphs	Chinese postman	Intuit	
Graphs	Water Jug	Intuit + Uber	
Graphs	Water Jug 2	MakeMyTrip MAQ Software	
оперио			
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	Word Break Problem (Trie solution)	Amazon Google Hike IBM MAQ Software Microsoft Walmart Zoho	
Tries	Given a sequence of words, print all anagrams together	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			
	Reach a given score	Samsung	
DP	Maximum difference of zeros and ones in binary string	Ola	
DP	Climbing Stairs	Intuit	
DP	Permutation Coefficient	Amazon	
DP	Longest Repeating Subsequence	Google + Amazon	
DP	Pairs with specific difference	Ola	
DP	Longest subsequence-1	Amazon	
DP	<u>Coin Change</u>	Microsoft+ Samsung + Barclays + Apple + Adobe	
DP	LIS	Amazon + Google + Facebook + Fidelity International	
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DP	Matrix Chain Multiplication	Walmart + Flipkart	
DP	Maximum profit by buying and selling a share at most twice	Accolite Amazon Microsoft	
DP	Optimal BST	Google	
DP	Largest Submatrix with sum 0	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	
Bit Manipulation	Count set bits in an integer	Adobe Apple	
Bit Manipulation	Find the two non-repeating elements in an array of repeating elements	Accolite Amazon FactSet Google MakeMyTrip Microsoft Qualcomm Samsung	
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)

	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)	
Tion	incar i ilic i io oo iliiiis (sasea 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	
De alatore aldre a	E LITTURE DE CAME TOUR LE COMP	
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	
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-preemptive	
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	
Heaps & Hashing	Check if an array can be divided into pairs whose sum is divisible by k	
	Design a effective DSA	
Heaps & Hashing		
Heaps & Hashing	Find number of Employees Under every Manager	
	Find number of Employees Under every Manager Pancake Sorting	
Heaps & Hashing Heaps & Hashing	Pancake Sorting	
Heaps & Hashing		

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