	Meet us on Youtube (Apna College		How to solve this sheet
	meet as an routable (righta conlege	1	HOW to SOIVE this sheet
Easy	Ideal Time : 5-10 mins		
	Ideal Time : 15-20 mins Ideal Time : 40-60 mins (based on Qs) 88 Qs	5 Questions each Day	
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Topics	Question (375)	Companies	Remarks
Arrays	Maximum and Minimum Element in an Array.	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
•	Reverse the Array	Infosys Moonfrog Labs	W 1 1 1 1 1 1 1
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	Next Permutation Uber + Goldman Sachs + Adobe Interview Qs Port time to Play and Sall Sack Amazon D. E. Shaw Discret Eliekate Goldman Sachs Intuit Make Martin Miscreeft I.		
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Arrays	Search in Rotated Sorted Array	Microsoft + Google + Apple Interview Qs	
	3Sum	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet	
	Container With Most Water Given Sum Pair	Flipkart + Dunzo Interview Qs Infosys + Amazon + Flipkart Interview Qs	
Arrays	Kth - Smallest Element	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
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	<u>Valid Palindrome</u>	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho	
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Strings	Longest Common Prefix	Adobe + Grofers + Dunzo Interview Qs	
-	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	
	Group Anagrams	Samsung + Adobe + Amazon Interview Qs	
Strings Strings	Longest Palindromic Substring Palindromic Substrings	Microsoft + Google + Samsung + Visa IQ Microsoft IQ	
	Next Permutation	Adobe + Goldman Sachs + Uber	
Strings	Count Palindromic Subsequences.	Myntra Interview Qs	
	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	
	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 Atla	
Strings Strings	Boyer Moore Algorithm for Pattern Searching Word Wrap	Amdocs Microsoft	use Dynaming Programn
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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	
	Rotate Image Word Sourch	Microsoft Paytm Samsung Adobe	
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
	Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'	Google	
	Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix	MAQ Software Microsoft VMWare	
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learching & Sorting	majority element	Amazon+ Google	
	count triplets with sum smaller that a given value	Amazon SAP Labs	
Searching & Sorting Searching & Sorting	Maximum Sum Subsequence with no adjacent elements	Amazon FactSet Oxigen Wallet OYO Rooms Paytm Walmart Yahoo Adobe Flipka	
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Searching & Sorting	Merge Sorted Arrays using O(1) Space Inversion of Array Find Duplicates in O(n) Time and O(1) Extra Space	Adobe Amazon BankBazaar Flipkart Microsoft Myntra MakeMyTrip Amazon D-E-Shaw Flipkart Paytm Qualcomm Zoho	

Searching & Sorting	Median of Two Sorted Array with Different Size	Amazon Samsung Microsoft Google	
Searching & Sorting	Median of Stream of Integers Running Integers	Amazon + Google	
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Backtracking	Knight Tour IBM		
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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	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 Mono	
Linked List	Reorder List	Amazon Microsoft OYO Rooms Intuit	
Linked List	Detect and remove loop in a linked list		
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Linked List	Elatten a linked list with next and child pointers	Google	
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Linked List Stacks & Queues	Rearrange a given linked list in place Sort Riotonic Doubly Linked Lists Merge K Sorted Lists Merge K Sort for linked list Quicksort on singly-linked list Quicksort on singly-linked list Sum of two 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 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 a tour that visits all stations	Ola Über Morgan Stanley Morgan Stanley Microsoft + Ola+ eBay Accolite Adobe Amazon MAQ Software Microsoft Paytm Veritas Paytm Accolite Adobe Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm Sn. 24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Pa Triology Amazon Goldman Sachs 24*7 Innovation Labs Microsoft Samsung Snapdeal Amazon + Google + Facebook Facebook Amazon + Morgain Stanley Microsoft + Atlassian Microsoft + Atlassian Microsoft + Amdocs MaQ Software Amazon + Samsung + Paytm + Vmware 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 Flipkart + Facebook Facebook Codenation Codenation Flipkart	Important
Linked List Linked	Rearrange a given linked list in place Sort Riotonic Doubly Linked Lists Merge K Sorted Lists Merge Sort for linked list Quicksort on singly-linked list Sum of two linked list Elattening 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 using Queue Queue Reversal Implement Stack Queue using Deque 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 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 Iru cache implementation Find a tour that visits all stations Activity selection problem greedy algo	Ola Über Morgan Stanley Morgan Stanley Microsoft + Ola+ eBay Accolite Adobe Amazon MAQ Software Microsoft Paytm Veritas Paytm Accolite Adobe Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm Sn. 24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Pa Triology Amazon Goldman Sachs 24*7 Innovation Labs Microsoft Samsung Snapdeal Amazon + Google + Facebook Facebook Amazon + Morgain Stanley Microsoft + Atlassian Microsoft + Atlassian Microsoft + Amdocs MaQ Software Amazon + Samsung + Paytm + Vmware inc Amazon Google Microsoft Visa Goldman Sachs Google Microsoft 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 Amazon Microsoft Flipkart	Important
Linked List Linked	Rearrange a given linked list in place Sort Ribitonic 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 list Elattening a linked list Clone 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 using Queues Queue Reversal Implement Stack Queue using Deque 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 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 Iru cache implementation Find a tour that visits all stations Activity selection problem greedy algo Greedy algorithm to find minimum number of coins	Ola Über Morgan Stanley Morgan Stanley Microsoft Ola+ eBay Accolite Adobe Amazon MAQ Software Microsoft Paytm Veritas Paytm Accolite Adobe Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm Sn. 24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Patriology Amazon Goldman Sachs 24*1 Innovation Labs Microsoft Samsung Snapdeal Amazon + Google + Facebook Facebook Amazon + Morgain Stanley Microsoft +Atlassian Microsoft +Atlassian Microsoft +Amdocs MaQ Software Amazon + Samsung + Paytm + Vmware 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 Codenation Codenation Flipkart Hipkart Amazon Microsoft Flipkart Amazon Microsoft Flipkart Amazon Microsoft Flipkart Microsoft + Ibpkart Amazon Microsoft Flipkart Microsoft + Ibpkart Amazon Microsoft Flipkart Amazon Microsoft Flipkart Amazon Microsoft + Jiber + Alibaba Uber	Important

Greedy	Find maximum height pyramid from the given array of objects	Flipkart Amazon	
Greedy Greedy	Minimum cost for acquiring all coins with k extra coins allowed with every coin Find maximum equal sum of every three stacks	Microsoft Amazon Flipkart	
Greedy	lob sequencing problem	Microsoft + Acolite	
Greedy	Greedy algorithm egyptian fraction	WHICH OSOTE + PACONICE	
Greedy	Fractional knapsack problem	Microsoft	
Greedy	Maximum length chain of pairs	Amazon Microsoft	
Greedy	Find smallest number with given number of digits and digit sum	MAQ Software OYO Rooms	
Greedy	Maximize sum of consecutive differences circular-array	Maccafe	
Greedy	paper-cut minimum number squares	Google	
Greedy	Lexicographically smallest array-k consecutive swaps	Amazon	
Greedy	Problems-CHOCOLA	Flipkart	
Greedy	Find minimum time to finish all jobs with given constraints		
Greedy	Job 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 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	Left View of Binary Tree	Microsoft + Adobe + Cisco Networking Academy	
Binary Trees	Right View of Binary Tree	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 Stanle	
Binary Trees	Leaf at same level	Amazon	
Binary Trees	Check for Balanced Tree	Amazon Walmart Microsoft	
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 Accolite Amazon Microsoft	
Binary Trees Binary Trees	Construct Binary Tree from Preorder and Inorder Traversal Height of Binary Tree.	Accolite Amazon Microsoft Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMyTri	
	Diameter of a Binary Tree	Amazon Microsoft OYO Rooms	
Binary Trees 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	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	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 Microso	
Binary Trees	Min distance between two given nodes of a Binary Tree	Amazon Linkedin MakeMyTrip Ola Cabs Qualcomm Samsung	
Binary Trees	Duplicate Subtrees	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 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	
Binary Search Trees	Minimum element in BST.	Microsoft	
Binary Search Trees	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	Validate Binary Search Tree	OYO Rooms Qualcomm Samsung Snapdeal VMWare Walmart Wooker Amazon	
Binary Search Trees	Kth Smallest Element in a BST	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	Count BST nodes that lie in a given range	D-E-Shaw Google	
Binary Search Trees	Populate Inorder Successor for all Nodes	Sap labs	
Binary Search Trees	Convert Normal BST to Balanced BST	Paytm DE Shawkadia	
Binary Search Trees	Merge two BSTs	DE Shaw India	
Binary Search Trees	Given n appointments, find all conflicting appointments Replace every element	Samsung	
Binary Search Trees Binary Search Trees	Construct BST from given preorder traversal	Samsung Adobe Morgan Stanley Microsoft	
		Amazon	
Rinary Search Trees		Amazon D-E-Shaw Samsung Microsoft Flipkart	Important
Binary Search Trees Binary Search Trees	Find median of BST in O(n) time and O(1) space Largest BST in a Binary Tree		
Binary Search Trees Binary Search Trees	Find median of BST in Qini time and Q(1) space Largest BST in a Binary Tree	Amazon b-c-shaw sanisang microsoft ripkart	important
Binary Search Trees	Largest BST in a Binary Tree	Annacon D.E. Shaw Jamisang Microsoft i Ipkart	important
Binary Search Trees Heaps & Hashing	Largest BST in a Binary Tree Choose k array elements such that difference of maximum and minimum is minimized		important
Binary Search Trees Heaps & Hashing Heaps & Hashing	Largest BST in a Binary Tree Choose k array elements such that difference of maximum and minimum is minimized Heap Sort	Adobe	important.
Binary Search Trees Heaps & Hashing Heaps & Hashing Heaps & Hashing	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	Adobe Amazon Microsoft	important
Binary Search Trees Heaps & Hashing Heaps & Hashing Heaps & Hashing Heaps & Hashing	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	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe	шротан
Heaps & Hashing	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	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe Amazon + Microsoft + Flipkart + Adobe	шротан
Heaps & Hashing	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 X'th Smallest/Largest Element in Unsorted Array	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe Amazon + Microsoft + Flipkart + Adobe ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	шротан
Heaps & Hashing	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 O(n) time and O(1) extra space	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe Amazon + Microsoft + Flipkart + Adobe ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon	шротан
Heaps & Hashing	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 K'th Smallest/Largest Element in Unsorted Array Find the maximum repeating number in O(n) time and O(1) extra space K-th smallest element after removing some integers from natural numbers	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe Amazon + Microsoft + Flipkart + Adobe Amazon + Microsoft + Flipkart + Adobe ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	шротан
Heaps & Hashing	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 O(n) time and O(1) extra space Kth smallest element after removing some integers from natural numbers Find k closest elements to a given value	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe Amazon + Microsoft Walmart Adobe ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon OYO Rooms	протавк
Heaps & Hashing	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 X'th Smallest/Largest Element in Unsorted Array. Eind the maximum repeating number in O(n) time and O(1) extra space X'th smallest element after removing some integers from natural numbers Eind k closest elements to a given value X'th largest element in a stream	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe Amazon Hicrosoft + Flipkart + Adobe ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon OYO Rooms Amazon Cisco Hike OYO Rooms Walmart Microsoft Flipkart	шроганс
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Heaps & Hashing	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 X'th Smallest/Largest Element in Unsorted Array. Eind the maximum repeating number in O(n) time and O(1) extra space X'th smallest element after removing some integers from natural numbers Eind k closest elements to a given value X'th largest element in a stream	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe Amazon Hicrosoft + Flipkart + Adobe ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon OYO Rooms Amazon Cisco Hike OYO Rooms Walmart Microsoft Flipkart	протавк

Heaps & Hashing Heaps & Hashing			
	Largest Subarray with 0 Sum	Amazon MakeMyTrip Microsoft	
	Count distinct elements in every window of size k	Accolite Amazon Microsoft	
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Heaps & Hashing	Group Shifted Strings	Oracle	
Heaps & Hashing	Merge K Sorted lists	Microsoft + Ola + eBay	
Heaps & Hashing	Find Median from Data Stream	Adobe Amazon Apple Belzabar D-E-Shaw Facebook Flipkart Google Intuit Micro	
Heaps & Hashing	Sliding Window Maximum	Amazon Directi Flipkart Microsoft Google	
	Find the smallest positive number		
Heaps & Hashing		Accolite Amazon Samsung Snapdeal	
Heaps & Hashing	Find Surpasser Count of each element in array	Amazon Morgan Stanley Ola Cabs SAP Labs	
Heaps & Hashing	Tournament Tree and Binary Heap	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft	
Heaps & Hashing	Check for palindrome	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho	
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Heaps & Hashing	Length of the largest subarray with contiguous elements	Amazon Intuit Microsoft	
Heaps & Hashing	Palindrome Substring Queries	Amazon Morgan Stanley Ola Cabs SAP Labs	
Heaps & Hashing	Subarray distinct elements	Microsoft + Ola + eBay	
Heaps & Hashing	Find the recurring function	MAQ Software	
Heaps & Hashing	K maximum sum combinations from two arrays	Amazon	
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Comple	DEC	Carrana - Dalla CAD Laba	
Graphs	BES	Samsung + Delhivery + SAP Labs	
Graphs	DES	Samsung + Intuit + Goldman Sachs	
Graphs	Flood Fill Algorithm	Google + Adobe + Apple	
Graphs	Number of Triangles	IBM	
Graphs	Detect cycle in a graph	Lenksart	
Graphs	Detect cycle in an undirected graph	Samsung	
Graphs	Rat in a Maze Problem	Sharechat + Directi	
Graphs	Steps by Knight	Samsung	
Graphs	Clone graph	Google + MAQ Software + Apple + Facebook	
Graphs	Number of Operations to Make Network Connected	Samsung	
Graphs	Dijkstra's shortest path algorithm	Amazon	
Graphs	Topological Sort	Amazon + Google + Flipkart + Oyo + Fipkart + Samsung	
	1 - 2		
Graphs	Oliver and the Game	Sharechat + Directi	
Graphs	Minimum time taken by each job to be completed given by a Directed Acyclic Graph	Amazon	
Graphs	Find whether it is possible to finish all tasks or not from given dependencies	Directi + Sharechat	
Graphs	Find the number of islands	Razorpay	
Graphs	Prim's Algo	Visa	
Graphs	Negative Weighted Cycle	Amazon	
Graphs	Flovd Warshall	Google + Uber	
	*	-	
Graphs	Graph Coloring	Morgan Stanley	
Graphs	Snakes and Ladders	Goldman Sachs +Makemytrip	
Graphs	Kosaraju's Theorem	Paytm	
Graphs	Journey to moon	Lenksart + Payload	
Graphs	Vertex Cover	Intuit	
Graphs	M Coloring Problem	Uber	
	Cheapest Flights Within K Stops	Uber + Paypal	
Graphs		**	
Graphs	Find if there is a path of more than k length from a source	Cisco + Intuit	
Graphs	Bellman Ford	Sharechat + Directi	
Graphs	Bipartitie Graph	Microsoft Flipkart	
	Word-Ladder	Microsoft	
Graphs			
Graphs	Allen Dictionary	Samsung	
Graphs	Kruskals MST	Amazon Cisco Samsung	Important
Graphs	Total number spanning trees graph	Amazon Cisco Samsung Microsoft Flipkart	
Graphs	Travelling Salesman	Google + Microsoft + Opera	Important
Graphs	Find longest path directed acyclic graph	Google	
Graphs	Two Clique Problem	Microsoft	
Graphs	Minimise the cash flow	Intuit + Uber	
		Intuit	
Graphs	<u>Chinese postman</u>		
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	
	the state of the s		
Tries	Word Break Problem (Trie solution)	Amazon Google Hike IBM MAQ Software Microsoft Walmart Zoho	
	Given a sequence of words, print all anagrams together	Amazon D-E-Shaw Goldman Sachs Morgan Stanley Snapdeal Microsoft	
Tries			
Tries Tries	Find shortest unique prefix for every word in a given list	Microsoft Google	
Tries		-	
	Eind shortest unique prefix for every word in a given list Implement a Phone Directory	Microsoft Google Amazon + Microsoft + Snapdeal	
Tries		-	
Tries Tries	Implement a Phone Directory	Amazon + Microsoft + Snapdeal	
Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items	Amazon + Microsoft + Snapdeal Amazon	
Tries Tries DP DP	Implement a Phone Directory	Amazon + Microsoft + Snapdeal	
Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items	Amazon + Microsoft + Snapdeal Amazon	
Tries Tries DP DP DP	Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung	
Tries Tries DP DP DP DP DP	Implement a Phone Directory Knapsack with Duplicate Items BBI counter Reach a given score Maximum difference of zeros and ones in binary string	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola	
Tries Tries DP DP DP DP DP DP	Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score Maximum difference of zeros and ones in binary string Climbing Stairs	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit	
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Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items BBI counter Beach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference.	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola	
Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference Longest subsequence-1.	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola Amazon	
Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items BBI counter Beach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference.	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola	
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Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items BBT counter BBT counter Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference Longest subsequence—1. Coin Change LIS	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola Amazon Microsoft+ Samsung + Barclays + Apple + Adobe Amazon + Google + Facebook + Fidelity International	
Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference. Longest subsequence-1. Coin Change US Longest Common Subsequence	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola Amazon Microsoft+ Samsung + Barclays + Apple + Adobe Amazon + Google + Fidelity International Siemens + Amazon + Google	
Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items BBT counter BBT counter Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference Longest subsequence—1. Coin Change LIS	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola Amazon Microsoft+ Samsung + Barclays + Apple + Adobe Amazon + Google + Facebook + Fidelity International	
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Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference Longest subsequence-1. Coin Change LIS Longest Common Subsequence Word Break Combination Sum IV	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola Amazon Microsoft+ Samsung + Barclays + Apple + Adobe Amazon + Google + Facebook + Fidelity International Siemens + Amazon + Google Amazon + Google + Microsoft + Walmart + Apple + IBM Adobe Amazon Microsoft	
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Tries Tries Tries DP	Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference Longest subsequence-1. Coin Change LIS Longest Common Subsequence Word Break Combination Sum IV House Robber House Robber 2 Decode Ways	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola Amazon Microsoft + Samsung + Barclays + Apple + Adobe Amazon + Google + Facebook + Fidelity International Siemens + Amazon + Google Amazon + Google + Microsoft + Walmart + Apple + IBM Adobe Amazon Microsoft Apple + Uber Arrays Dynamic Programming Adobe + Uber	
Tries Tries Tries DP DP DP DP DP DP DP DP DP D	Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference Longest subsequence-1. Coin Change LIS Longest Common Subsequence Word Break Combination Sum IV House Robber 1 Houe Robber 2 Decode Ways Unique Paths	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola Amazon Microsoft + Samsung + Barclays + Apple + Adobe Amazon Microsoft + Samsung + Barclays + Apple + Adobe Amazon + Google + Facebook + Fidelity International Siemens + Amazon + Google Amazon + Google + Microsoft + Walmart + Apple + IBM Adobe Amazon Microsoft Apple + Uber Arrays Dynamic Programming Adobe + Uber Google + Microsoft	
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Tries Tries Tries DP DP DP DP DP DP DP DP DP D	Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence Pairs with specific difference. Longest subsequence-1. Coin Change LIS Longest Common Subsequence Word Break Combination Sum IV House Robber House Robber - House Robber 2 Decode Ways Unique Paths Jumps Game Knapsack Problem nCC	Amazon + Microsoft + Snapdeal Amazon Microsoft Samsung Ola Intuit Amazon Google + Amazon Ola Amazon Microsoft + Samsung + Barclays + Apple + Adobe Amazon + Google + Facebook + Fidelity International Siemens + Amazon + Google Amazon + Google + Microsoft + Walmart + Apple + IBM Adobe Amazon Microsoft Apple + Uber Arrays Dynamic Programming Adobe + Uber Google + Microsoft Facebook Amazon Microsoft Google Amazon Directi Flipkart GreyOrange Microsoft Mobicip Morgan Stanley Oracle Google	

DP	Gold mine	Samsung
DP	Assembly Line Scheduling	Goldman Sachs
DP	Maximize The Cut Segments	Amazon OYO Rooms Microsoft
DP	Maximum sum increasing subsequence.	
DP	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 Worgan Stanley Microsoft Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Software Myi
DP	Max length chain	Amazon Microsoft
DP	Largest Square in Matrix	Amazon Samsung
DP	Maximum Path Sum	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 Amazon
DP	Longest Common Substring	Webarch Club
DP	Partition Equal Subset Sum	Amazon + Accolite + Traveloca + Adobe
DP	Longest Palindromic Subsequince	Amazon Google
DP	Count Palindromic Subsequences	Myntra
DP	Longest Palindromic Substring	Amazon + Microsoft + Samsung + Visa
DP	Longest Alternating Sequence	Ola
DP	Weighted Job Scheduling	Intuit
DP	Coin Game	Salesforce
DP	Coin Game Winner	Ola
DP	Optimal Strategy for a game	Google + IBM
DP	Word Wrap	Microsoft
DP	Mobile numeric keypad_	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	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	Mag 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	County Internation On
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)		
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	
Charles 0 Occasion	Landa and Stade after Constant and	
Stacks & Queues	Implement Stack using Queue or heap	
Stacks & Queues	Sum of minimum-maximum elements subarrays size-k	
Stacks & Queues Stacks & Queues	Minimum time required so that all oranges become rotten Efficiently implement k-queues single array	
Stacks & Queues	Linciently 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	tive
Binary Trees	Check Mirror in N-ary tree	
Binary Trees	Maximum sum of nodes in Binary tree such that no two are adjacent	
Dillary Trees	maniform of modes 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	
Heaps & Hashing	Design a effective DSA	
Heaps & Hashing	Find number of Employees Under every Manager	
Heaps & Hashing	Pancake Sorting	
Troups of Trushing	- STORES OF STORES	

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