

# DSA by Shraddha Didi & Aman Bhaiya

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[How to solve this sheet?](#)

Level	Topic	Question (375)	Companies	Remarks
Easy	Ideal Time : 5-10 mins			
Medium	Ideal Time : 15-20 mins			
Hard	Ideal Time : 40-60 mins (based on Qs)   88 Qs		5 Questions each Day	
Topics	Question (375)		Companies	Remarks
Arrays	<a href="#">Maximum and Minimum Element in an Array</a>	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Infosys Moonfrog Labs		
Arrays	<a href="#">Reverse the Array</a>	Microsoft + Facebook Interview Qs		
Arrays	<a href="#">Maximum-Subarray</a>	Amazon Interview Qs		
Arrays	<a href="#">Contains Duplicate</a>	Amazon Interview Qs		
Arrays	<a href="#">Chocolate Distribution Problem</a>	Microsoft Google Adobe Amazon D-E-Shaw Flipkart Hike Intuit MakeMyTrip P		
Arrays	<a href="#">Search in Rotated Sorted Array</a>	Uber + Goldman Sachs + Adobe Interview Qs		
Arrays	<a href="#">Next Permutation</a>	Amazon D-E-Shaw Directi Flipkart Goldman Sachs Intuit MakeMyTrip Microsoft		
Arrays	<a href="#">Best time to Buy and Sell Stock</a>	Amazon Interview Qs		
Arrays	<a href="#">Repeat and Missing Number Array</a>	Amazon Microsoft Walmart Adobe		
Arrays	<a href="#">Kth-Largest Element in an Array</a>	Samsung Interview Qs		
Arrays	<a href="#">Trapping Rain Water</a>	Microsoft + Facebook Interview Qs		
Arrays	<a href="#">Product of Array Except Self</a>	Amazon D-E-Shaw Microsoft Morgan Stanley OYO Rooms Google		
Arrays	<a href="#">Maximum Product Subarray</a>	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet		
Arrays	<a href="#">Find Minimum in Rotated Sorted Array</a>	Microsoft + Google + Apple Interview Qs		
Arrays	<a href="#">Find Pair with Sum in Sorted &amp; Rotated Array</a>	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet		
Arrays	<a href="#">3Sum</a>	Flipkart + Dunzo Interview Qs		
Arrays	<a href="#">Container With Most Water</a>	Infosys + Amazon + Flipkart Interview Qs		
Arrays	<a href="#">Given Sum Pair</a>	ABC Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google		
Arrays	<a href="#">Kth -Smallest Element</a>	Google Interview Qs		
Arrays	<a href="#">Merge Overlapping Intervals</a>	Amazon		
Arrays	<a href="#">Find Minimum Number of Merge Operations to Make an Array Palindrome</a>	Barclays Interview Qs		
Arrays	<a href="#">Given an Array of Numbers Arrange the Numbers to Form the Biggest Number</a>	Amazon		
Arrays	<a href="#">Space Optimization Using Bit Manipulations</a>	Snapdeal Microsoft		
Arrays	<a href="#">Subarray Sum Divisible K</a>	Amazon		
Arrays	<a href="#">Print all Possible Combinations of r Elements in a Given Array of Size n</a>	Microsoft		
Arrays	<a href="#">Mo's Algorithm</a>			
Strings	<a href="#">Valid Palindrome</a>	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho		
Strings	<a href="#">Valid Anagram</a>	Nagarro Media.net Directi Google Adobe Flipkart		
Strings	<a href="#">Valid parentheses</a>	Google Interview Qs		
Strings	<a href="#">Remove Consecutive Characters</a>	Samsung + Adobe		
Strings	<a href="#">Longest Common Prefix</a>	Adobe + Grofers + Dunzo Interview Qs		
Strings	<a href="#">Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence</a>	Adobe		
Strings	<a href="#">Print all the Duplicates in the Input String</a>	Ola + Amdocs IQ		
Strings	<a href="#">Longest Substring without Repeating Characters</a>	Morgan Stanley + Amazon IQ		
Strings	<a href="#">Longest Repeating Character Replacement</a>	Amazon Google		
Strings	<a href="#">Group Anagrams</a>	Samsung + Adobe + Amazon Interview Qs		
Strings	<a href="#">Longest Palindromic Substring</a>	Microsoft + Google + Samsung + Visa IQ		
Strings	<a href="#">Palindromic Substrings</a>	Microsoft IQ		
Strings	<a href="#">Next Permutation</a>	Adobe + Goldman Sachs + Uber		
Strings	<a href="#">Count Palindromic Subsequences</a>	Myatra Interview Qs		
Strings	<a href="#">Smallest Window in a String Containing all the Characters of Another String</a>	Microsoft + Amazon IQ		
Strings	<a href="#">Wildcard String Matching</a>	Microsoft + Amazon + Ola IQ		
Strings	<a href="#">Longest Prefix Suffix</a>	Flipkart + Swiggy IQ		
Strings	<a href="#">Rabin-Karp Algorithm for Pattern Searching</a>	Microsoft		
Strings	<a href="#">Transform One String to Another using Minimum Number of Given Operation</a>	Directi		
Strings	<a href="#">Minimum Window Substring</a>	Amazon Google MakeMyTrip Streamoid Technologies Microsoft Media.net At		
Strings	<a href="#">Boyer Moore Algorithm for Pattern Searching</a>	Amdocs		
Strings	<a href="#">Word Wrap</a>	Microsoft		use Dynamic Programming
2D Arrays	<a href="#">Zigzag (or diagonal) Traversal of Matrix</a>	Amazon		
2D Arrays	<a href="#">Set Matrix Zeroes</a>	Amazon Microsoft		
2D Arrays	<a href="#">Spiral Matrix</a>	Flipkart + Apple + Societe Generale IQ		
2D Arrays	<a href="#">Rotate Image</a>	Microsoft Paytm Samsung Adobe		
2D Arrays	<a href="#">Word Search</a>	Google + Ola + Goldman Sachs IQ		
2D Arrays	<a href="#">Find the Number of Islands   Set 1 (Using DFS)</a>	Microsoft + Uber + Apple + Amazon IQ		
2D Arrays	<a href="#">Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'</a>	Google		Read about DFS
2D Arrays	<a href="#">Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix</a>	MAQ Software Microsoft VMware		
2D Arrays	<a href="#">Create a Matrix with Alternating Rectangles of O and X</a>	MAQ VMware		
2D Arrays	<a href="#">Maximum Size Rectangle of all 1s</a>	Amazon Microsoft		
Searching & Sorting	<a href="#">Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K</a>	Samsung		
Searching & Sorting	<a href="#">counting sort</a>	Samsung+ Morgan Stanley+ Snapdeal + EPAM Systems		
Searching & Sorting	<a href="#">find common elements three sorted arrays</a>	MAQ Software Microsoft VMWare		
Searching & Sorting	<a href="#">Searching in an array where adjacent differ by at most k</a>	TCS Amazon		
Searching & Sorting	<a href="#">ceiling in a sorted array</a>	TCS		
Searching & Sorting	<a href="#">Pair with given difference</a>	Amazon Visa		
Searching & Sorting	<a href="#">majority element</a>	Amazon+ Google		
Searching & Sorting	<a href="#">count triplets with sum smaller than a given value</a>	Amazon SAP Labs		
Searching & Sorting	<a href="#">Maximum Sum Subsequence with no adjacent elements</a>	Amazon FactSet Oigen Wallet OYO Rooms Paytm Walmart Yahoo Adobe Flip		
Searching & Sorting	<a href="#">Merge Sorted Arrays using O(1) Space</a>	Amdocs Brocade Goldman Sachs Juniper Networks LinkedIn Microsoft Quikr		
Searching & Sorting	<a href="#">Inversion of Array</a>	Adobe Amazon BankBazaar Flipkart Microsoft Myatra MakeMyTrip		
Searching & Sorting	<a href="#">Find Duplicates in O(n) Time and O(1) Extra Space</a>	Amazon D-E-Shaw Paytm Qualcomm Zoho		
Searching & Sorting	<a href="#">Radix Sort</a>	Amazon+ Microsoft		
Searching & Sorting	<a href="#">Product of Array except itself</a>	Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart		
Searching & Sorting	<a href="#">Make all Array Elements Equal</a>	Amazon		
Searching & Sorting	<a href="#">Check if Reversing a Sub Array Make the Array Sorted</a>	Amazon		
Searching & Sorting	<a href="#">Find Four Elements that Sum to a Given Value</a>	Adobe Amazon Google Microsoft OYO Rooms		
Searching & Sorting	<a href="#">Median of Two Sorted Array with Different Size</a>	Amazon Samsung Microsoft Google		
Searching & Sorting	<a href="#">Median of Stream of Integers Running Integers</a>	Amazon + Google		
Searching & Sorting	<a href="#">Print Subarrays with 0 Sum</a>	Paytm Adobe		
Searching & Sorting	<a href="#">Aggressive Cows</a>	Adobe		
Searching & Sorting	<a href="#">Allocate Minimum number of Pages</a>	Google Infosys Codenation Amazon Microsoft		
Searching & Sorting	<a href="#">Minimum Swaps to Sort</a>	Amazon + Google		
Backtracking	<a href="#">Backtracking Set 2 Rat in a Maze</a>	Microsoft Amazon		
Backtracking	<a href="#">Combinational Sum</a>	Adobe Amazon Microsoft		
Backtracking	<a href="#">Crossword-Puzzle</a>	Microsoft		
Backtracking	<a href="#">Longest Possible Route in a Matrix with Hurdles</a>	Microsoft		
Backtracking	<a href="#">Printing all solutions in N-Queen Problem</a>	Accolite Amazon Amdocs D-E-Shaw MAQ Software Twitter Visa Microsoft		
Backtracking	<a href="#">Solve the Sudoku</a>	Amazon Directi Flipkart MakeMyTrip MAQ Software Microsoft Ola Cabs Oracle		
Backtracking	<a href="#">Partition Equal Subset Sum</a>	Amazon + Adobe + Accolite + Traveloka		
Backtracking	<a href="#">M. Coloring Problem</a>	Amazon		

Backtracking	KnightTour	
Backtracking	Sudoku	IBM Amazon + Adobe + Accolite + Traveloka Uber
Backtracking	Remove Invalid Parentheses	
Backtracking	Word Break Problem using Backtracking	Facebook Amazon Microsoft
Backtracking	Print all Palindromic Partitions of a String	Facebook Amazon Microsoft
Backtracking	Find Shortest Safe Route in a Path with Landmines	Amazon
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 MAC
Linked List	Merge Two Sorted Lists	Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Microsoft OA
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 Mo
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 MAC
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	Microsoft
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 Bi-tonic 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
Linked List	Quicksort on singly-linked list	Paytm
Linked List	Sum of two linked lists	Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm S
Linked List	Flattening a linked list	24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft
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 + Morgan 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	Infix to Postfix	Amazon + Samsung + Paytm + Vmware inc
Stacks & Queues	Design and Implement Special stack.	Amazon Google Microsoft Visa Goldman Sachs
Stacks & Queues	Longest Valid String	Google Microsoft
Stacks & Queues	Find if an expression has duplicate parenthesis or not	Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google
Stacks & Queues	Stack permutations check if an array is stack permutation of other	Visa
Stacks & Queues	Count natural numbers whose permutation greater number	Amazon
Stacks & Queues	Sort a stack using Recursion	Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft
Stacks & Queues	Queue based approach for first non repeating character in a stream	Microsoft Flipkart
Stacks & Queues	The Celebrity Problem	Google + Visa + Apple
Stacks & Queues	Next Larger Element	Visa
Stacks & Queues	Distance of nearest cell	Flipkart + Facebook
Stacks & Queues	Rotten-oranges	Facebook
Stacks & Queues	Next smaller element	Codenation
Stacks & Queues	Circular-tour	Codenation Flipkart
Stacks & Queues	Efficiently implement k-stacks single array	Flipkart
Stacks & Queues	The celebrity problem	Google + Visa + Apple
Stacks & Queues	Iterative tower of hanoi	Microsoft Flipkart
Stacks & Queues	Find the maximum of minimums for every window size in a given array	Amazon Microsoft Flipkart
Stacks & Queues	Iru cache implementation	Microsoft + Uber + Alibaba
Stacks & Queues	Find a tour that visits all stations	Uber
Greedy	Activity selection problem greedy algo	Facebook Morgan Stanley Flipkart
Greedy	Greedy algorithm to find minimum number of coins	Accolite Amazon Morgan Stanley Oracle Paytm Samsung Snapdeal Synopsys
Greedy	Minimum sum two numbers formed digits array-2	Google
Greedy	Minimum sum absolute difference pairs two arrays	Amazon
Greedy	Find maximum height pyramid from the given array of objects	Flipkart Amazon
Greedy	Minimum cost for acquiring all coins with k extra coins allowed with every coin	Microsoft Amazon Flipkart
Greedy	Find maximum equal sum of every three stacks	Microsoft + Acolite
Greedy	Job sequencing problem	Microsoft
Greedy	Greedy algorithm egyptian fraction	Amazon Microsoft
Greedy	Fractional knapsack problem	MAQ Software OYO Rooms
Greedy	Maximum length chain of pairs	Maccafe
Greedy	Find smallest number with given number of digits and digit sum	Google
Greedy	Maximize sum of consecutive differences circular-array	Amazon
Greedy	paper-cut minimum number squares	Flipkart
Greedy	Lexicographically smallest array-k consecutive swaps	Samsung
Greedy	Problems-CHOCOLA	Amazon Microsoft
Greedy	Find minimum time to finish all jobs with given constraints	Maccafe
Greedy	Job sequencing using disjoint set union	Amazon Microsoft
Greedy	Rearrange characters string such that no two adjacent are same	
Greedy	Minimum edges to reverse to make path from a source to a destination	
Greedy	Minimize Cash Flow among a given set of friends who have borrowed money from each other	
Greedy	Minimum Cost to cut a board into squares	
Binary Trees	Maximum Depth of Binary Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMy'
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 Sta
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	<a href="#">Check if Tree is Isomorphic</a>	Amazon Microsoft
Binary Trees	<a href="#">Same Tree</a>	Amazon Microsoft Flipkart
Binary Trees	<a href="#">Construct Binary Tree from Preorder and Inorder Traversal</a>	Accolite Amazon Microsoft
Binary Trees	<a href="#">Height of Binary Tree</a>	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMy
Binary Trees	<a href="#">Diameter of a Binary Tree</a>	Amazon Microsoft OYO Rooms
Binary Trees	<a href="#">Top View of Binary Tree</a>	Microsoft + Adobe + Expedia Group
Binary Trees	<a href="#">Bottom View of Binary Tree</a>	D-E Shaw India
Binary Trees	<a href="#">Diagonal Traversal of Binary Tree</a>	Amazon Microsoft
Binary Trees	<a href="#">Boundary Traversal of binary tree</a>	Accolite Amazon FactSet Hike Kritikal Solutions
Binary Trees	<a href="#">Construct Binary Tree from String with Brackets</a>	Microsoft Morgan Stanley OYO Rooms Payu Samsung Snapdeal Flipkart
Binary Trees	<a href="#">Minimum swap required to convert binary tree to binary search tree</a>	Adobe Amazon
Binary Trees	<a href="#">Duplicate subtree in Binary Tree</a>	Google
Binary Trees	<a href="#">Check if a given graph is tree or not</a>	Microsoft Amazon
Binary Trees	<a href="#">Lowest Common Ancestor in a Binary Tree</a>	Accolite Amazon American Express Cisco Expedia Flipkart MakeMyTrip Micro
Binary Trees	<a href="#">Min distance between two given nodes of a Binary Tree</a>	Amazon LinkedIn MakeMyTrip Ola Cabs Qualcomm Samsung
Binary Trees	<a href="#">Duplicate Subtrees</a>	Ola
Binary Trees	<a href="#">Kth ancestor of a node in binary tree</a>	Josh Technology Group
Binary Trees	<a href="#">Binary Tree Maximum Path Sum</a>	Samsung + Facebook
Binary Trees	<a href="#">Serialize and Deserialize Binary Tree</a>	Flipkart InMobi LinkedIn MAQ Software Microsoft Paytm Quikr Yahoo
Binary Trees	<a href="#">Binary Tree to DLL</a>	Accolite Amazon Goldman Sachs Microsoft Morgan Stanley Salesforce Snapd
Binary Trees	<a href="#">Print all k-sum paths in a binary tree</a>	Accolite Amazon Goldman Sachs
Binary Search Trees	<a href="#">Lowest Common Ancestor of a Binary Search Tree</a>	Accolite Amazon Flipkart MAQ Software Microsoft Samsung Synopsys
Binary Search Trees	<a href="#">Binary Search Tree   Set 1 (Search and Insertion)</a>	Accolite Amazon Microsoft Paytm Samsung
Binary Search Trees	<a href="#">Minimum element in BST</a>	Microsoft
Binary Search Trees	<a href="#">Predecessor and Successor</a>	Google + Adobe + Goldman Sachs + Direct
Binary Search Trees	<a href="#">Check whether BST contains Dead End</a>	Walmart
Binary Search Trees	<a href="#">Binary Tree to BST</a>	HSBC
Binary Search Trees	<a href="#">Kth largest element in BST</a>	Accolite Amazon Samsung SAP Labs Microsoft
Binary Search Trees	<a href="#">Validate Binary Search Tree</a>	OYO Rooms Qualcomm Samsung Snapdeal VMWare Walmart Wooker Amazc
Binary Search Trees	<a href="#">Kth Smallest Element in a BST</a>	Accolite Amazon Google
Binary Search Trees	<a href="#">Delete Node in a BST</a>	Adobe Barclays
Binary Search Trees	<a href="#">Flatten BST to sorted list</a>	Microsoft
Binary Search Trees	<a href="#">Preorder to Postorder</a>	Amazon LinkedIn Flipkart
Binary Search Trees	<a href="#">Count BST nodes that lie in a given range.</a>	D-E-Shaw Google
Binary Search Trees	<a href="#">Populate Inorder Successor for all Nodes</a>	Sap labs
Binary Search Trees	<a href="#">Convert Normal BST to Balanced BST</a>	Paytm
Binary Search Trees	<a href="#">Merge two BSTs</a>	DE Shaw India
Binary Search Trees	<a href="#">Given n appointments, find all conflicting appointments</a>	Samsung
Binary Search Trees	<a href="#">Replace every element</a>	Samsung
Binary Search Trees	<a href="#">Construct BST from given preorder traversal</a>	Adobe Morgan Stanley Microsoft
Binary Search Trees	<a href="#">Find median of BST in O(n) time and O(1) space</a>	Amazon
Binary Search Trees	<a href="#">Largest BST in a Binary Tree</a>	Amazon D-E-Shaw Samsung Microsoft Flipkart
		Important
Heaps & Hashing	<a href="#">Choose K array elements such that difference of maximum and minimum is minimized</a>	
Heaps & Hashing	<a href="#">Heap Sort</a>	Adobe
Heaps & Hashing	<a href="#">Top K Frequent Elements</a>	Amazon Microsoft
Heaps & Hashing	<a href="#">k largest elements in an array</a>	Amazon Microsoft Walmart Adobe
Heaps & Hashing	<a href="#">Next Greater Element</a>	Amazon + Microsoft + Flipkart + Adobe
Heaps & Hashing	<a href="#">Kth Smallest/Largest Element in Unsorted Array</a>	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe
Heaps & Hashing	<a href="#">Find the maximum repeating number in O(n) time and O(1) extra space</a>	Accolite Amazon
Heaps & Hashing	<a href="#">K-th smallest element after removing some integers from natural numbers</a>	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe
Heaps & Hashing	<a href="#">Find k closest elements to a given value</a>	Amazon OYO Rooms
Heaps & Hashing	<a href="#">Kth largest element in a stream</a>	Amazon Cisco Hike OYO Rooms Walmart Microsoft Flipkart
Heaps & Hashing	<a href="#">Connect Ropes</a>	Amazon + Oyo + Goldman Sachs
Heaps & Hashing	<a href="#">Cuckoo Hashing</a>	Amaxon
Heaps & Hashing	<a href="#">Itinerary from a List of Tickets</a>	Microsoft + Ola + eBay
Heaps & Hashing	<a href="#">Largest Subarray with 0 Sum</a>	Amazon MakeMyTrip Microsoft
Heaps & Hashing	<a href="#">Count distinct elements in every window of size k</a>	Accolite Amazon Microsoft
Heaps & Hashing	<a href="#">Group Shifted Strings</a>	Oracle
Heaps & Hashing	<a href="#">Merge K Sorted Lists</a>	Microsoft + Ola + eBay
Heaps & Hashing	<a href="#">Find Median from Data Stream</a>	Adobe Amazon Apple Belzabar D-E-Shaw Facebook Flipkart Google Intuit Mic
Heaps & Hashing	<a href="#">Sliding Window Maximum</a>	Amazon Directi Flipkart Microsoft Google
Heaps & Hashing	<a href="#">Find the smallest positive number</a>	Accolite Amazon Samsung Snapdeal
Heaps & Hashing	<a href="#">Find Surpasser Count of each element in array</a>	Amazon Morgan Stanley Ola Cabs SAP Labs
Heaps & Hashing	<a href="#">Tournament Tree and Binary Heap</a>	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft
Heaps & Hashing	<a href="#">Check for palindrome</a>	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho
Heaps & Hashing	<a href="#">Length of the largest subarray with contiguous elements</a>	Amazon Intuit Microsoft
Heaps & Hashing	<a href="#">Palindrome Substring Queries</a>	Amazon Morgan Stanley Ola Cabs SAP Labs
Heaps & Hashing	<a href="#">Subarray distinct elements</a>	Microsoft + Ola + eBay
Heaps & Hashing	<a href="#">Find the recurring function</a>	MAQ Software
Heaps & Hashing	<a href="#">K maximum sum combinations from two arrays</a>	Amazon
Graphs	<a href="#">BFS</a>	Samsung + Delhivery + SAP Labs
Graphs	<a href="#">DFS</a>	Samsung + Intuit + Goldman Sachs
Graphs	<a href="#">Flood Fill Algorithm</a>	Google + Adobe + Apple
Graphs	<a href="#">Number of Triangles</a>	IBM
Graphs	<a href="#">Detect cycle in a graph</a>	Lenksart
Graphs	<a href="#">Detect cycle in an undirected graph</a>	Samsung
Graphs	<a href="#">Rat in a Maze Problem</a>	Sharechat + Directi
Graphs	<a href="#">Steps by Knight</a>	Samsung
Graphs	<a href="#">Clone graph</a>	Google + MAQ Software + Apple + Facebook
Graphs	<a href="#">Number of Operations to Make Network Connected</a>	Samsung
Graphs	<a href="#">Dijkstra's shortest path algorithm</a>	Amazon
Graphs	<a href="#">Topological Sort</a>	Amazon + Google + Flipkart + Oyo + Fipkart + Samsung
Graphs	<a href="#">Oliver and the Game</a>	Sharechat + Directi
Graphs	<a href="#">Minimum time taken by each job to be completed given by a Directed Acyclic Graph</a>	Amazon
Graphs	<a href="#">Find whether it is possible to finish all tasks or not from given dependencies</a>	Directi + Sharechat
Graphs	<a href="#">Find the number of islands</a>	Razorpay
Graphs	<a href="#">Prim's Algo</a>	Visa
Graphs	<a href="#">Negative Weighted Cycle</a>	Amazon
Graphs	<a href="#">Floyd Warshall</a>	Google + Uber
Graphs	<a href="#">Graph Coloring</a>	Morgan Stanley
Graphs	<a href="#">Snakes and Ladders</a>	Goldman Sachs + Makemytrip
Graphs	<a href="#">Kosaraju's Theorem</a>	Paytm
Graphs	<a href="#">Journey to moon</a>	Lenksart + Payload
Graphs	<a href="#">Vertex Cover</a>	Intuit
Graphs	<a href="#">M Coloring Problem</a>	Uber
Graphs	<a href="#">Cheapest Flights Within K Stops</a>	Uber + Paypal
Graphs	<a href="#">Find if there is a path of more than k length from a source</a>	Cisco + Intuit
Graphs	<a href="#">Bellman Ford</a>	Sharechat + Directi
Graphs	<a href="#">Bipartite Graph</a>	Microsoft Flipkart
Graphs	<a href="#">Word-Ladder</a>	Microsoft
Graphs	<a href="#">Allen Dictionary</a>	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	
Graphs	Chinese postman	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	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	Coin Change	Microsoft + Samsung + Barclays + Apple + Adobe	
DP	LIS	Amazon + Google + Facebook + Fidelity International	
DP	Longest Common Subsequence	Siemens + Amazon + Google	
DP	Word Break	Amazon + Google + Microsoft + Walmart + Apple + IBM	
DP	Combination Sum IV	Adobe Amazon Microsoft	
DP	House Robber	Apple + Uber	
DP	House Robber 2	Arrays Dynamic Programming	
DP	Decode Ways	Adobe + Uber	
DP	Unique Paths	Google + Microsoft	
DP	Jumps Game	Facebook Amazon Microsoft Google	
DP	Knapsack Problem	Amazon Directi Flipkart GreyOrange Microsoft Mobicip Morgan Stanley Oracle Google	
DP	nCr	Amazon + Google	
DP	Catalan Number	Google + Goldman Sachs + Citrix	
DP	Edit Distance	Amazon + Google	
DP	Subset Sum	Amazon + 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	Amazon Morgan Stanley Microsoft	
DP	Count all subsequences having product less than K	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	
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 FlipKart	
DP	Minimum removals from array to make max - min <= K	Amazon	
DP	Longest Common Substring	Webarch Club	
DP	Partition Equal Subset Sum	Amazon + Accolite + Traveloka + Adobe	
DP	Longest Palindromic Subsequence	Amazon Google	
DP	Count Palindromic Subsequences	Mynta	
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	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	Google Interview Qs	
Segment Trees	Range Minimum Query	Alibaba	
Segment Trees	Range Sum Query - Mutable	Samsung + Accolite	
Segment Trees	Create Sorted Array through Instructions	Walmart	
Segment Trees	Count of Range Sum	Codename Google	
Segment Trees	Count of Smaller Numbers After Self		