

DSA by Shradha Didi & Aman Bhaiya			
	<a href="#">Meet us on Youtube (Apna College)</a>		How to solve this sheet?
Easy	Ideal Time : 5-10 mins		
Medium	Ideal Time : 15-20 mins	5 Questions each Day	
Hard	Ideal Time : 40-60 mins (based on Qs)   88 Qs		
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	
Arrays	<a href="#">Reverse the Array</a>	Infosys Moonfrog Labs	
Arrays	<a href="#">Maximum-Subarray</a>	Microsoft + Facebook Interview Qs	use Kadane's Algorithm
Arrays	<a href="#">Contains Duplicate</a>	Amazon Interview Qs	
Arrays	<a href="#">Chocolate Distribution Problem</a>	Amazon Interview Qs	
Arrays	<a href="#">Search in Rotated Sorted Array</a>	Microsoft Google Adobe Amazon D-E-Shaw Flipkart Hike Intuit MakeMyTrip Pay	
Arrays	<a href="#">Next Permutation</a>	Uber + Goldman Sachs + Adobe Interview Qs	
Arrays	<a href="#">Best time to Buy and Sell Stock</a>	Amazon D-E-Shaw Directi Flipkart Goldman Sachs Intuit MakeMyTrip Microsoft	
Arrays	<a href="#">Repeat and Missing Number Array</a>	Amazon Interview Qs	
Arrays	<a href="#">Kth-Largest Element in an Array</a>	Amazon Microsoft Walmart Adobe	
Arrays	<a href="#">Trapping Rain Water</a>	Samsung Interview Qs	
Arrays	<a href="#">Product of Array Except Self</a>	Microsoft + Facebook Interview Qs	
Arrays	<a href="#">Maximum Product Subarray</a>	Amazon D-E-Shaw Microsoft Morgan Stanley OYO Rooms Google	
Arrays	<a href="#">Find Minimum in Rotated Sorted Array</a>	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet	
Arrays	<a href="#">Find Pair with Sum in Sorted &amp; Rotated Array</a>	Microsoft + Google + Apple Interview Qs	
Arrays	<a href="#">3Sum</a>	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet	
Arrays	<a href="#">Container With Most Water</a>	Flipkart + Dunzo Interview Qs	
Arrays	<a href="#">Given Sum Pair</a>	Infosys + Amazon + Flipkart Interview Qs	
Arrays	<a href="#">Kth - Smallest Element</a>	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
Arrays	<a href="#">Merge Overlapping Intervals</a>	Google Interview Qs	
Arrays	<a href="#">Find Minimum Number of Merge Operations to Make an Array Palindrome</a>	Amazon	
Arrays	<a href="#">Given an Array of Numbers Arrange the Numbers to Form the Biggest Number</a>	Barclays Interview Qs	
Arrays	<a href="#">Space Optimization Using Bit Manipulations</a>	Amazon	
Arrays	<a href="#">Subarray Sum Divisible K</a>	Snapdeal Microsoft	
Arrays	<a href="#">Print all Possible Combinations of r Elements in a Given Array of Size n</a>	Amazon	
Arrays	<a href="#">Mo's Algorithm</a>	Microsoft	
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	use Stacks (if possible)
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>	Myntra 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 Atla	
Strings	<a href="#">Boyer Moore Algorithm for Pattern Searching</a>	Amdocs	
Strings	<a href="#">Word Wrap</a>	Microsoft	use Dynaming 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	Read about DFS
2D Arrays	<a href="#">Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'</a>	Google	
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 0 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="#">Piar with given difference</a>	Amazon Visa	
Searching & Sorting	<a href="#">majority element</a>	Amazon+ Google	
Searching & Sorting	<a href="#">count triplets with sum smaller that a given value</a>	Amazon SAP Labs	
Searching & Sorting	<a href="#">Maximum Sum Subsequence with no adjacent elements</a>	Amazon FactSet Oxigen Wallet OYO Rooms Paytm Walmart Yahoo Adobe Flipk	
Searching & Sorting	<a href="#">Merge Sorted Arrays using O(1) Space</a>	Amdocs Brocade Goldman Sachs Juniper Networks LinkedIn Microsoft Quikr Sr	
Searching & Sorting	<a href="#">Inversion of Array</a>	Adobe Amazon BankBazaar Flipkart Microsoft Myntra MakeMyTrip	
Searching & Sorting	<a href="#">Find Duplicates in O(n) Time and O(1) Extra Space</a>	Amazon D-E-Shaw Flipkart 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 F	
Backtracking	<a href="#">Partition Equal Subset Sum</a>	Amazon + Adobe + Accolite + Traveloka	
Backtracking	<a href="#">M Coloring Problem</a>	Amazon	
Backtracking	<a href="#">Knight Tour</a>	IBM	
Backtracking	<a href="#">Sudoku</a>	Amazon + Adobe + Accolite + Traveloka	
Backtracking	<a href="#">Remove Invalid Parentheses</a>	Uber	
Backtracking	<a href="#">Word Break Problem using Backtracking</a>		
Backtracking	<a href="#">Print all Palindromic Partitions of a String</a>	Facebook Amazon Microsoft	
Backtracking	<a href="#">Find Shortest Safe Route in a Path with Landmines</a>	Facebook Amazon Microsoft	
Backtracking	<a href="#">Partition of Set into K Subsets with Equal Sum</a>	Amazon	
Backtracking	<a href="#">Backtracking set-7 hamiltonian cycle</a>	Amazon	
Backtracking	<a href="#">tug-of-war</a>	Google	
Backtracking	<a href="#">Maximum Possible Number by doing at most K swaps</a>	Amazon + Adobe + Accolite + Traveloka	
Backtracking	<a href="#">Backtracking set-8 solving cryptarithmic puzzles</a>	Goldman Sachs	
Backtracking	<a href="#">Find paths from corner cell to middle cell in maze</a>	Meta	
Backtracking	<a href="#">Arithmetic Expressions</a>	Flipkart	
Linked List	<a href="#">Reverse Linked List</a>	Sprinklr	
Linked List	<a href="#">Linked List Cycle</a>	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAQ S	
Linked List	<a href="#">Merge Two Sorted Lists</a>	Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Microsoft OAT	
Linked List	<a href="#">Delete without Head node</a>	Amazon Goldman Sachs Kritikal Solutions Microsoft Samsung Visa	
Linked List	<a href="#">Remove duplicates from an unsorted linked list</a>	Amazon Intuit	
Linked List	<a href="#">Sort a linked list of 0s-1s-or-2s</a>	Microsoft Amazon MakeMyTrip	
Linked List	<a href="#">Multiply two numbers represented linked lists</a>	Amazon	
Linked List	<a href="#">Remove nth node from end of list</a>	Accolite Adobe Amazon Citicorp Epic Systems FactSet Hike MAQ Software Mon	
Linked List	<a href="#">Reorder List</a>	Amazon Microsoft OYO Rooms Intuit	
Linked List	<a href="#">Detect and remove loop in a linked list</a>	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAQ S	
Linked List	<a href="#">Write a Function to get the Intersection Point of two Linked Lists</a>	Amazon	
Linked List	<a href="#">Flatten a linked list with next and child pointers</a>	Google	
Linked List	<a href="#">Linked list in zig-zag fashion</a>	Micorsoft	
Linked List	<a href="#">Reverse a doubly linked list</a>	Walmart	
Linked List	<a href="#">Delete nodes which have a greater value on right side</a>	Amazon	
Linked List	<a href="#">Segregate even and odd Elements in a Linked List</a>	Walmart	
Linked List	<a href="#">Point to next higher value node in a linked list with an Arbitrary Pointer</a>	GeekyAnts	
Linked List	<a href="#">Rearrange a given linked list in place</a>	Ola Uber	
Linked List	<a href="#">Sort Biotonic Doubly Linked Lists</a>	Morgan Stanley	
Linked List	<a href="#">Merge K Sorted Lists</a>	Microsoft+ Ola+ eBay	
Linked List	<a href="#">Merge sort for linked list</a>	Accolite Adobe Amazon MAQ Software Microsoft Paytm Veritas	Important
Linked List	<a href="#">Quicksort on singly-linked list</a>	Paytm	Important
Linked List	<a href="#">Sum of two linked lists</a>	Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm Sn	
Linked List	<a href="#">Flattening a linked list</a>	24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Pa	
Linked List	<a href="#">Clone a linked list with next and random Pointer</a>	Triology	
Linked List	<a href="#">Subtract two numbers represented as linked lists</a>	Amazon Goldman Sachs	
Stacks & Queues	<a href="#">Implement two stacks in an Array</a>	24*7 Innovation Labs Microsoft Samsung Snapdeal	
Stacks & Queues	<a href="#">Evaluation of Postfix Expression</a>	Amazon + Google + Facebook	
Stacks & Queues	<a href="#">Implement Stack using Queues</a>	Facebook	
Stacks & Queues	<a href="#">Queue Reversal</a>	Amazon + Morgain Stanley	
Stacks & Queues	<a href="#">Implement Stack Queue using Deque</a>	Microsoft +Atlassian	
Stacks & Queues	<a href="#">Reverse first k elements of queue</a>	Microsoft + Amdocs	
Stacks & Queues	<a href="#">Design Stack with Middle Operation</a>	MaQ Software	
Stacks & Queues	<a href="#">Infix to Postfix</a>	Amazon + Samsung + Paytm + Vmware inc	
Stacks & Queues	<a href="#">Design and Implement Special stack</a>	Amazon Google Microsoft Visa Goldman Sachs	
Stacks & Queues	<a href="#">Longest Valid String</a>	Google Microsoft	
Stacks & Queues	<a href="#">Find if an expression has duplicate parenthesis or not</a>	Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google	
Stacks & Queues	<a href="#">Stack permutations check if an array is stack permutation of other</a>	Visa	
Stacks & Queues	<a href="#">Count natural numbers whose permutation greater number</a>	Amazon	
Stacks & Queues	<a href="#">Sort a stack using Recursion</a>	Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft	
Stacks & Queues	<a href="#">Queue based approach for first non repeating character in a stream</a>	Microsoft Flipkart	
Stacks & Queues	<a href="#">The Celebrity Problem</a>	Google + Visa + Apple	
Stacks & Queues	<a href="#">Next larger Element</a>	Visa	
Stacks & Queues	<a href="#">Distance of nearest cell</a>	Flipkar + Facebook	
Stacks & Queues	<a href="#">Rotten-oranges</a>	Facebook	
Stacks & Queues	<a href="#">Next smaller element</a>	Codenation	
Stacks & Queues	<a href="#">Circular-tour</a>	Codenation Flipkart	
Stacks & Queues	<a href="#">Efficiently implement k-stacks single array</a>	Flipkart	
Stacks & Queues	<a href="#">The celebrity problem</a>	Google + Visa + Apple	
Stacks & Queues	<a href="#">Iterative tower of hanoi</a>	Microsoft Flipkart	
Stacks & Queues	<a href="#">Find the maximum of minimums for every window size in a given array</a>	Amazon Microsoft Flipkart	
Stacks & Queues	<a href="#">lru cache implementation</a>	Microsoft + Uber + Alibaba	
Stacks & Queues	<a href="#">Find a tour that visits all stations</a>	Uber	
Greedy	<a href="#">Activity selection problem greedy algo</a>	Facebook Morgan Stanley Flipkart	
Greedy	<a href="#">Greedy algorithm to find minimum number of coins</a>	Accolite Amazon Morgan Stanley Oracle Paytm Samsung Snapdeal Synopsys Vi	
Greedy	<a href="#">Minimum sum two numbers formed digits array-2</a>	Google	
Greedy	<a href="#">Minimum sum absolute difference pairs two arrays</a>	Amazon	
Greedy	<a href="#">Find maximum height pyramid from the given array of objects</a>	Flipkart Amazon	
Greedy	<a href="#">Minimum cost for acquiring all coins with k extra coins allowed with every coin</a>		
Greedy	<a href="#">Find maximum equal sum of every three stacks</a>	Microsoft Amazon Flipkart	
Greedy	<a href="#">Job sequencing problem</a>	Microsoft + Acolite	
Greedy	<a href="#">Greedy algorithm egyptian fraction</a>		
Greedy	<a href="#">Fractional knapsack problem</a>	Microsoft	
Greedy	<a href="#">Maximum length chain of pairs</a>	Amazon Microsoft	
Greedy	<a href="#">Find smallest number with given number of digits and digit sum</a>	MAQ Software OYO Rooms	
Greedy	<a href="#">Maximize sum of consecutive differences circular-array</a>	Maccafe	
Greedy	<a href="#">paper-cut minimum number squares</a>	Google	
Greedy	<a href="#">Lexicographically smallest array-k consecutive swaps</a>	Amazon	
Greedy	<a href="#">Problems-CHOCOLA</a>	Flipkart	
Greedy	<a href="#">Find minimum time to finish all jobs with given constraints</a>		
Greedy	<a href="#">Job sequencing using disjoint set union</a>	Samsung	
Greedy	<a href="#">Rearrange characters string such that no two adjacent are same</a>	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 Stanli	
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	
Binary Trees	Construct Binary Tree from Preorder and Inorder Traversal	Accolite Amazon Microsoft	
Binary Trees	Height of Binary Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMyTri	
Binary Trees	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	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	
Binary Search Trees	Merge two BSTs	DE Shaw India	
Binary Search Trees	Given n appointments, find all conflicting appointments	Samsung	
Binary Search Trees	Replace every element	Samsung	
Binary Search Trees	Construct BST from given preorder traversal	Adobe Morgan Stanley Microsoft	
Binary Search Trees	Find median of BST in O(n) time and O(1) space	Amazon	
Binary Search Trees	Largest BST in a Binary Tree	Amazon D-E-Shaw Samsung Microsoft Flipkart	Important
Heaps & Hashing	Choose k array elements such that difference of maximum and minimum is minimized		
Heaps & Hashing	Heap Sort	Adobe	
Heaps & Hashing	Top K Frequent Elements	Amazon Microsoft	
Heaps & Hashing	k largest elements in an array	Amazon Microsoft Walmart Adobe	
Heaps & Hashing	Next Greater Element	Amazon + Microsoft + Flipkart + Adobe	
Heaps & Hashing	K'th Smallest/Largest Element in Unsorted Array	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
Heaps & Hashing	Find the maximum repeating number in O(n) time and O(1) extra space	Accolite Amazon	
Heaps & Hashing	K-th smallest element after removing some integers from natural numbers	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe	
Heaps & Hashing	Find k closest elements to a given value	Amazon OYO Rooms	
Heaps & Hashing	K'th largest element in a stream	Amazon Cisco Hike OYO Rooms Walmart Microsoft Flipkart	
Heaps & Hashing	Connect Ropes	Amazon + Oyo + Goldman Sachs	
Heaps & Hashing	Cuckoo Hashing	Amaxon	
Heaps & Hashing	Itinerary from a List of Tickets	Microsoft + Ola + eBay	
Heaps & Hashing	Largest Subarray with 0 Sum	Amazon MakeMyTrip Microsoft	
Heaps & Hashing	Count distinct elements in every window of size k	Accolite Amazon Microsoft	
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	
Heaps & Hashing	Find the smallest positive number	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	
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	
Graphs	BFS	Samsung + Delhivery + SAP Labs	
Graphs	DFS	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	<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="#">Bipartitie Graph</a>	Microsoft Flipkart	
Graphs	<a href="#">Word-Ladder</a>	Microsoft	
Graphs	<a href="#">Allen Dictionary</a>	Samsung	
Graphs	<a href="#">Kruskals MST</a>	Amazon Cisco Samsung	Important
Graphs	<a href="#">Total number spanning trees graph</a>	Amazon Cisco Samsung Microsoft Flipkart	
Graphs	<a href="#">Travelling Salesman</a>	Google + Microsoft + Opera	Important
Graphs	<a href="#">Find longest path directed acyclic graph.</a>	Google	
Graphs	<a href="#">Two Clique Problem</a>	Microsoft	
Graphs	<a href="#">Minimise the cash flow</a>	Intuit + Uber	
Graphs	<a href="#">Chinese postman</a>	Intuit	
Graphs	<a href="#">Water Jug.</a>	Intuit + Uber	
Graphs	<a href="#">Water Jug 2</a>	MakeMyTrip MAQ Software	
Tries	<a href="#">Construct a trie from scratch</a>	Accolite Amazon D-E-Shaw FactSet Microsoft	
Tries	<a href="#">Print unique rows in a given boolean matrix</a>	Amazon Zoho	
Tries	<a href="#">Word Break Problem -I (Trie solution)</a>	Amazon Google Hike IBM MAQ Software Microsoft Walmart Zoho	
Tries	<a href="#">Given a sequence of words, print all anagrams together</a>	Amazon D-E-Shaw Goldman Sachs Morgan Stanley Snapdeal Microsoft	
Tries	<a href="#">Find shortest unique prefix for every word in a given list</a>	Microsoft Google	
Tries	<a href="#">Implement a Phone Directory</a>	Amazon + Microsoft + Snapdeal	
DP	<a href="#">Knapsack with Duplicate Items</a>	Amazon	
DP	<a href="#">BBT counter</a>	Microsoft	
DP	<a href="#">Reach a given score</a>	Samsung	
DP	<a href="#">Maximum difference of zeros and ones in binary string</a>	Ola	
DP	<a href="#">Climbing Stairs</a>	Intuit	
DP	<a href="#">Permutation Coefficient</a>	Amazon	
DP	<a href="#">Longest Repeating Subsequence</a>	Google + Amazon	
DP	<a href="#">Pairs with specific difference.</a>	Ola	
DP	<a href="#">Longest subsequence-1.</a>	Amazon	
DP	<a href="#">Coin Change</a>	Microsoft+ Samsung + Barclays + Apple + Adobe	
DP	<a href="#">LIS</a>	Amazon + Google + Facebook + Fidelity International	
DP	<a href="#">Longest Common Subsequence</a>	Siemens + Amazon + Google	
DP	<a href="#">Word Break</a>	Amazon + Google + Microsoft + Walmart + Apple + IBM	
DP	<a href="#">Combination Sum IV</a>	Adobe Amazon Microsoft	
DP	<a href="#">House Robber</a>	Apple + Uber	
DP	<a href="#">Houe Robber 2</a>	Arrays Dynamic Programming	
DP	<a href="#">Decode Ways</a>	Adobe + Uber	
DP	<a href="#">Unique Paths</a>	Google + Microsoft	
DP	<a href="#">Jumps Game</a>	Facebook Amazon Microsoft Google	
DP	<a href="#">Knapsack Problem</a>	Amazon Directi Flipkart GreyOrange Microsoft Mobicip Morgan Stanley Oracle	
DP	<a href="#">nCr</a>	Google	
DP	<a href="#">Catalan Number</a>	Amazon + Google	
DP	<a href="#">Edit Distance</a>	Google + Goldman Sachs + Citrix	
DP	<a href="#">Subset Sum.</a>	Amazon + Google	
DP	<a href="#">Gold mine</a>	Samsung	
DP	<a href="#">Assembly Line Scheduling</a>	Goldman Sachs	
DP	<a href="#">Maximize The Cut Segments</a>	Amazon OYO Rooms Microsoft	
DP	<a href="#">Maximum sum increasing subsequence.</a>	Amazon Morgan Stanley Microsoft	
DP	<a href="#">Count all subsequences having product less than K</a>	Goldman Sachs	
DP	<a href="#">Maximum sum increasing subsequence</a>	Amazon Morgan Stanley Microsoft	
DP	<a href="#">Egg dropping puzzle</a>	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Software My	
DP	<a href="#">Max length chain</a>	Amazon Microsoft	
DP	<a href="#">Largest Square in Matrix</a>	Amazon Samsung	
DP	<a href="#">Maximum Path Sum</a>	Amazon + Microsoft + Oyo + Directi	
DP	<a href="#">Minimum Number of Jumps</a>	Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Google Flipkar	
DP	<a href="#">Minimum removals from array to make max - min &lt;= K</a>	Amazon	
DP	<a href="#">Longest Common Substring</a>	Webarch Club	
DP	<a href="#">Partition Equal Subset Sum</a>	Amazon + Accolite + Traveloca + Adobe	
DP	<a href="#">Longest Palindromic Subsequence</a>	Amazon Google	
DP	<a href="#">Count Palindromic Subsequences</a>	Myntra	
DP	<a href="#">Longest Palindromic Substring</a>	Amazon + Microsoft + Samsung + Visa	
DP	<a href="#">Longest Alternating Sequence</a>	Ola	
DP	<a href="#">Weighted Job Scheduling</a>	Intuit	
DP	<a href="#">Coin Game</a>	Salesforce	
DP	<a href="#">Coin Game Winner</a>	Ola	
DP	<a href="#">Optimal Strategy for a game</a>	Google + IBM	
DP	<a href="#">Word Wrap</a>	Microsoft	
DP	<a href="#">Mobile numeric keypad.</a>	Amazon Microsoft	
DP	<a href="#">Maximum Length of Pair Chain</a>	Amazon Microsoft	
DP	<a href="#">Matrix Chain Multiplication</a>	Walmart + Flipkart	
DP	<a href="#">Maximum profit by buying and selling a share at most twice</a>	Accolite Amazon Microsoft	
DP	<a href="#">Optimal BST</a>	Google	
DP	<a href="#">Largest Submatrix with sum 0</a>	Amazon MakeMyTrip Microsoft	
DP	<a href="#">Largest area rectangular sub-matrix with equal number of 1's and 0's</a>	Amazon Directi Intuit MakeMyTrip Microsoft Samsung Google Flipkart	
Bit Manipulation	<a href="#">Count set bits in an integer</a>	Adobe Apple	



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