

DSA by Shradha Didi & Aman Bhaiya			
<a href="#">Meet us on Youtube (Apna College)</a>		<a href="#">How to solve this sheet?</a>	
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	<a href="#">use Kadane's Algorithm</a>
Arrays	<a href="#">Contains Duplicate</a>	Amazon Interview Qs	
Arrays	<a href="#">Chocolate Distribution Problem</a>	Amazon Interview Qs	
Arrays	<a href="#">Search an Element in a Sorted and Pivoted Array</a>	Microsoft Google Adobe Amazon D-E-Shaw Flipkart Hike Intuit MakeMyTrip Paytm	
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 Ola	
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="#">Search in Rotated Sorted 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	<a href="#">use Stacks (if possible)</a>
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 Atlassiar	
Strings	<a href="#">Boyer Moore Algorithm for Pattern Searching</a>	Amdocs	
Strings	<a href="#">Word Wrap</a>	Microsoft	<a href="#">use Dynaming Programming</a>
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	<a href="#">Read about DFS</a>
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 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 Oxygen Wallet OYO Rooms Paytm Walmart Yahoo Adobe Flipkart	
Searching & Sorting	<a href="#">Merge Sorted Arrays using O(1) Space</a>	Amdocs Brocade Goldman Sachs Juniper Networks LinkedIn Microsoft Quikr Snapd	
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 PayP	
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 Soft	
Linked List	<a href="#">Merge Two Sorted Lists</a>	Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Microsoft OATS Sys	
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 Monotyp	
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 Soft	
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>	GeelyAnts	
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 Snapde	
Linked List	<a href="#">Flattening a linked list</a>	24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Paytm	
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 Visa M	
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	<a href="#">Minimum edges to reverse to make path from a source to a destination</a>		
Greedy	<a href="#">Minimize Cash Flow among a given set of friends who have borrowed money from each other</a>		
Greedy	<a href="#">Minimum Cost to cut a board into squares</a>	Maccafe	
Binary Trees	<a href="#">Maximum Depth of Binary Tree</a>	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMyTrip	
Binary Trees	<a href="#">Reverse Level Order Traversal</a>	Amazon + Microsoft + flipkart + Adobe	
Binary Trees	<a href="#">Subtree of Another Tree</a>	Amazon + Microsoft + Facebook	
Binary Trees	<a href="#">Invert Binary Tree</a>	Amazon Hike	
Binary Trees	<a href="#">Binary Tree Level Order Traversal</a>	Accolite Adobe Amazon Cisco D-E-Shaw Flipkart	
Binary Trees	<a href="#">Left View of Binary Tree</a>	Microsoft + Adobe + Cisco Networking Academy	
Binary Trees	<a href="#">Right View of Binary Tree</a>	Amdocs	
Binary Trees	<a href="#">ZigZag Tree Traversal</a>	Amazon Cisco FactSet Hike Snapdeal Walmart Microsoft Flipkart	
Binary Trees	<a href="#">Create a mirror tree from the given binary tree</a>	Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Stanley M	
Binary Trees	<a href="#">Leaf at same level</a>	Amazon	
Binary Trees	<a href="#">Check for Balanced Tree</a>	Amazon Walmart Microsoft	
Binary Trees	<a href="#">Transform to Sum Tree</a>	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 MakeMyTrip	
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>	DE 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 Microsoft O	
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 Quirk Yahooo	
Binary Trees	<a href="#">Binary Tree to DLL</a>	Accolite Amazon Goldman Sachs Microsoft Morgan Stanley Salesforce Snapdeal	
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 Amazon Fac	
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 Bardays	
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="#">K'th 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="#">K'th 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 Microsoft	
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	<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="#">House 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 Paycom	
DP	<a href="#">nCt</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 Myntra	
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 Flipkart	
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 + Traveloka + 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	

## 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	<a href="#">Edit Distance</a>	use Dynaming Programming (if possible)
Searching & Sorting	<a href="#">Sort a Nearly Sorted (or K sorted) Array</a>	
Searching & Sorting	<a href="#">How to Efficiently Sort a Big List Dates in 20's</a>	
Searching & Sorting	<a href="#">find a repeating and a missing number</a>	
Searching & Sorting	<a href="#">sort array according count set bits</a>	
Searching & Sorting	<a href="#">Minimum Swaps to Make Two Array Identical</a>	
Searching & Sorting	<a href="#">Insert in Sorted and Non-Overlapping Interval Array</a>	
Searching & Sorting	<a href="#">3-Way QuickSort</a>	
Backtracking	<a href="#">Find if There is a Path of More Than k Length From a Source</a>	
Backtracking	<a href="#">Match a Pattern and String without Using Regular Expressions</a>	
Linked List	<a href="#">Josephus Circle implementation using STL list</a>	
Linked List	<a href="#">Find a triplet from three linked lists with sum equal to a given Number</a>	
Linked List	<a href="#">Pair with given sum</a>	
Linked List	<a href="#">Select a random node from a singly linked list</a>	
Linked List	<a href="#">First non repeating character</a>	
Stacks & Queues	<a href="#">Implement Stack using Queue or heap</a>	
Stacks & Queues	<a href="#">Sum of minimum-maximum elements subarrays size-k</a>	
Stacks & Queues	<a href="#">Minimum time required so that all oranges become rotten</a>	
Stacks & Queues	<a href="#">Efficiently implement k-queues single array</a>	
Greedy	<a href="#">Maximize array sum after k-negation operations</a>	
Greedy	<a href="#">Program for shortest job first or sjf-cpu scheduling set 1 non-preemptive</a>	
Binary Trees	<a href="#">Check Mirror in N-ary tree</a>	
Binary Trees	<a href="#">Maximum sum of nodes in Binary tree such that no two are adjacent</a>	
Binary Search Trees	<a href="#">Brothers From Different Roots</a>	
Heaps & Hashing	<a href="#">Check the condition</a>	
Heaps & Hashing	<a href="#">Check if an array can be divided into pairs whose sum is divisible by k</a>	
Heaps & Hashing	<a href="#">Design a effective DSA</a>	
Heaps & Hashing	<a href="#">Find number of Employees Under every Manager</a>	

Heaps & Hashing	<a href="#">Pancake Sorting</a>	
Graphs	<a href="#">Bride in a graph</a>	
Graphs	<a href="#">Seven Bridges of Königsberg</a>	
Graphs	<a href="#">Minimum edges to reverse to make path from a source to a destination</a>	
DP	<a href="#">Maximum Sum Rectangle</a>	
DP	<a href="#">Interleaved Strings</a>	
DP	<a href="#">Painting the Fence</a>	
DP	<a href="#">Largest independent Set</a>	
DP	<a href="#">Minimum cost to fill given weight in a bag</a>	
DP	<a href="#">Boolean Parenthesization</a>	
DP	<a href="#">Maximum Profit</a>	
DP	<a href="#">Palindromic Partitioning</a>	