| Easy Medium Hard Topics Arrays | | 5 Questions each Day | |
|--|--|---|-----------------------|
| Medium Hard Topics Arrays | Ideal Time: 15-20 mins Ideal Time: 40-60 mins (based on Qs) 88 Qs Question (375) Maximum and Minimum Element in an Array. Reverse the Array. Maximum-Subarray. | | |
| Topics Arrays | Question (375) Maximum and Minimum Element in an Array. Reverse the Array. Maximum-Subarray. | | |
| Arrays Arrays Arrays Arrays Arrays Arrays Arrays Arrays Arrays | Maximum and Minimum Element in an Array Reverse the Array Maximum-Subarray | | |
| Arrays Arrays Arrays Arrays Arrays Arrays Arrays Arrays Arrays | Reverse the Array Maximum-Subarray | Companies | Remarks |
| Arrays Arrays Arrays Arrays Arrays Arrays | Maximum-Subarray | ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe | |
| Arrays Arrays Arrays Arrays Arrays | · | Infosys Moonfrog Labs Microsoft + Facebook Interview Qs | use Kadane's Algorit |
| Arrays Arrays Arrays | | Amazon Interview Qs | |
| Arrays Arrays | | Amazon Interview Qs | |
| Arrays | Search in Rotated Sorted Array Next Permutation | Microsoft Google Adobe Amazon D-E-Shaw Flipkart Hike Intuit MakeMyTrip P Uber + Goldman Sachs + Adobe Interview Qs | |
| Arrays | | Amazon D-E-Shaw Directi Flipkart Goldman Sachs Intuit MakeMyTrip Microsof | |
| - | | Amazon Interview Qs | |
| Arrays Arrays | Kth-Largest Element in an Array Trapping Rain Water | Amazon Microsoft Walmart Adobe Samsung Interview Qs | use auxiliary array |
| Arrays | 11 5 | Microsoft + Facebook Interview Qs | use auxiliary array |
| Arrays | Maximum Product Subarray | Amazon D-E-Shaw Microsoft Morgan Stanley OYO Rooms Google | |
| Arrays | Find Minimum in Rotated Sorted Array | Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet | |
| Arrays Arrays | Find Pair with Sum in Sorted & Rotated Array 3Sum | Microsoft + Google + Apple Interview Qs Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet | |
| Arrays | | Flipkart + Dunzo Interview Qs | use 2 pointer appro |
| Arrays | Given Sum Pair | Infosys + Amazon + Flipkart Interview Qs | |
| Arrays | Kth - Smallest Element Merge Overlanning Intervals | ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe | |
| Arrays Arrays | | Google Interview Qs Amazon | |
| Arrays | | Barclays Interview Qs | |
| Arrays | | Amazon Spandasi Missasaft | |
| Arrays Arrays | Subarray Sum Divisible K Print all Possible Combinations of r Elements in a Given Array of Size n | Snapdeal Microsoft Amazon | |
| Arrays | | Microsoft | |
| | | | |
| Strings | Valid Palindrome | Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho | |
| Strings | Valid Anagram | Nagarro Media.net Directi Google Adobe Flipkart | |
| Strings | | Google Interview Qs | use Stacks (if possib |
| Strings Strings | Remove Consecutive Characters Longest Common Prefix | Samsung + Adobe Adobe + Grofers + Dunzo Interview Qs | |
| Strings | | Adobe | |
| Strings | | Ola + Amdocs IQ | |
| Strings | Longest Substring without Repeating Characters Longest Repeating Character Replacement | Morgan Stanley + Amazon IQ Amazon Google | |
| Strings Strings | | Samsung + Adobe + Amazon Interview Qs | |
| Strings | | Microsoft + Google + Samsung + Visa IQ | |
| Strings | | Microsoft IQ | |
| Strings Strings | | Adobe + Goldman Sachs + Uber Myntra Interview Qs | |
| Strings | | Microsoft + Amazon IQ | |
| Strings | Wildcard String Matching | Microsoft + Amazon + Ola IQ | |
| Strings | | Flipkart + Swiggy IQ | |
| Strings Strings | Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation | Microsoft Directi | |
| Strings | Minimum Window Substring | Amazon Google MakeMyTrip Streamoid Technologies Microsoft Media.net At | |
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| 20.4 | The second of th | A | |
| 2D Arrays 2D Arrays | Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes | Amazon Amazon Microsoft | |
| 2D Arrays | | Flipkart + Apple + Societe Generale IQ | |
| 2D Arrays | Rotate Image | Microsoft Paytm Samsung Adobe | |
| 2D Arrays | | Google + Ola + Goldman Sachs IQ | Dood about DEC |
| 2D Arrays 2D Arrays | Find the Number of Islands Set 1 (Using DFS) Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X' | Microsoft + Uber + Apple + Amazon IQ Google | Read about DFS |
| 2D Arrays | Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix | MAQ Software Microsoft VMWare | |
| 2D Arrays | Create a Matrix with Alternating Rectangles of O and X | MAQ VMWare | |
| 2D Arrays | Maximum Size Rectangle of all 1s | Amazon Microsoft | |
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| earching & Sorting | find common elements three sorted arrays | MAQ Software Microsoft VMWare | |
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| earching & Sorting | | TCS | |
| earching & Sorting earching & Sorting | Piar with given difference majority element | Amazon Visa Amazon+ Google | |
| earching & Sorting | count triplets with sum smaller that a given value | Amazon SAP Labs | |
| earching & Sorting | Maximum Sum Subsequence with no adjacent elements | Amazon FactSet Oxigen Wallet OYO Rooms Paytm Walmart Yahoo Adobe Flip | |
| earching & Sorting earching & Sorting | Merge Sorted Arrays using O(1) Space Inversion of Array | Amdocs Brocade Goldman Sachs Juniper Networks Linkedin Microsoft Quikr Adobe Amazon BankBazaar Flipkart Microsoft Myntra MakeMyTrip | |
| earching & Sorting | Find Duplicates in O(n) Time and O(1) Extra Space | Amazon D-E-Shaw Flipkart Paytm Qualcomm Zoho | |
| earching & Sorting | Radix Sort | Amazon+ Microsoft | |
| earching & Sorting | Product of Array Elements Equal | Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart | |
| earching & Sorting earching & Sorting | Make all Array Elements Equal Check if Reversing a Sub Array Make the Array Sorted | Amazon Amazon | |
| earching & Sorting | Find Four Elements that Sum to a Given Value | Adobe Amazon Google Microsoft OYO Rooms | |
| earching & Sorting | Median of Two Sorted Array with Different Size | Amazon Samsung Microsoft Google | |
| earching & Sorting earching & Sorting | Median of Stream of Integers Running Integers Print Subarrays with 0 Sum | Amazon + Google Paytm Adobe | |
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| Backtracking | Remove Invalid Parentheses | Uber | |
| Backtracking | Word Break Problem using Backtracking | | |
| Backtracking | Print all Palindromic Partitions of a String | Facebook Amazon Microsoft | |
| Backtracking | Find Shortest Safe Route in a Path with Landmines | Facebook Amazon Microsoft | |
| Backtracking | Partition of Set into K Subsets with Equal Sum | Amazon | |
| | · | Amazon | |
| Backtracking | Backtracking set-7 hamiltonian cycle | | |
| 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 | |
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| | | | |
| Linked List | Reverse Linked List | Sprinklr | |
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| | 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 | <u>Linked list in zig-zag fashion</u> | Micorsoft | |
| Linked List | Reverse a doubly linked list | Walmart | |
| Linked List | Delete nodes which have a greater value on right side | Amazon | |
| Linked List | Segregate even and odd Elements in a Linked List | Walmart | |
| Linked List | Point to next higher value node in a linked list with an Arbitrary Pointer | | |
| | | GeekyAnts | |
| Linked List | Rearrange a given linked list in place | Ola Uber | |
| Linked List | Sort Biotonic Doubly Linked Lists | Morgan Stanley | |
| Linked List | Merge K Sorted Lists | Microsoft+ Ola+ eBay | |
| Linked List | Merge sort for linked list | Accolite Adobe Amazon MAQ Software Microsoft Paytm Veritas | portant |
| Linked List | Quicksort on singly-linked list | | portant |
| Linked List | Sum of two linked lists | Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm S | P |
| | | | |
| 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 | |
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| Stacks & Queues | Implement two stacks in an Array | 24*7 Innovation Labs Microsoft Samsung Snapdeal | |
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| Stacks & Queues | Evaluation of Postfix Expression | Amazon + Google + Facebook | |
| Stacks & Queues | Implement Stack using Queues | Facebook | |
| Stacks & Queues | Queue Reversal | Amazon + Morgain 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 | |
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| 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 | Flipkar + 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 | |
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| Stacks & Queues | The celebrity problem | Google + Visa + Apple | |
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| Stacks & Queues | Find the maximum of minimums for every window size in a given array | | |
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| Binary Trees | Same Tree | Amazon Microsoft Flipkart |
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| Binary Trees | Height of Binary Tree | Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMy |
| Binary Trees | <u>Diameter of a Binary Tree</u> | Amazon Microsoft OYO Rooms |
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| Binary Trees | <u>Duplicate Subtrees</u> | Ola |
| Binary Trees | Kth ancestor of a node in binary tree | Josh Technology Group |
| Binary Trees | Binary Tree Maximum Path Sum | Samsung + Facebook |
| Binary Trees | Serialize and Deserialize Binary Tree | Flipkart InMobi Linkedin MAQ Software Microsoft Paytm Quikr Yahoo |
| Binary Trees | Binary Tree to DLL | Accolite Amazon Goldman Sachs Microsoft Morgan Stanley Salesforce Snapd |
| Binary Trees | Print all k-sum paths in a binary tree | Accolite Amazon Goldman Sachs |
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| 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 Amazo |
| 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 |
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| | | |
| 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 Adob€ |
| 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 |
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| 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 Mic |
| 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 |
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| 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 | Steps by Knight | Samsung |
| Graphs | Clone graph | Google + MAQ Software + Apple + Facebook |
| Graphs | Number of Operations to Make Network Connected | Samsung |
| Graphs | Dijkstra's shortest path algorithm | Amazon |
| Graphs | Topological Sort | Amazon + Google + Flipkart + Oyo + Fipkart + Samsung |
| Graphs | Oliver and the Game | Sharechat + Directi |
| Graphs | Minimum time taken by each job to be completed given by a Directed Acyclic Graph | Amazon |
| Graphs | Find whether it is possible to finish all tasks or not from given dependencies | Directi + Sharechat |
| Graphs | Find the number of islands | Razorpay |
| Graphs | Prim's Algo | Visa |
| Graphs | Negative Weighted Cycle | Amazon |
| Graphs | Floyd Warshall | Google + Uber |
| Graphs | Graph Coloring | Morgan Stanley |
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| Graphs | M Coloring Problem | Uber |
| Graphs | Cheapest Flights Within K Stops | Uber + Paypal |
| Graphs | Find if there is a path of more than k length from a source | Cisco + Intuit |
| Graphs | Bellman Ford | Sharechat + Directi |
| · | | Adiana and Elizabanh |
| Graphs | Bipartitie Graph | Microsoft Flipkart |
| | | Microsoft Hipkart Microsoft |
| Graphs Graphs Graphs | Bipartitie Graph Word-Ladder Allen Dictionary | · |

| | ruskals MST | Amazon Cisco Samsung | Important |
|--|--|--|-----------|
| | otal number spanning trees graph | Amazon Cisco Samsung Microsoft Flipkart | |
| | ravelling Salesman | Google + Microsoft + Opera | Important |
| - | • | | important |
| | ind longest path directed acyclic graph | Google | |
| · · · · · · · · · · · · · · · · · · · | wo Clique Problem | Microsoft | |
| Graphs <u>M</u> | <u>Minimise the cash flow</u> | Intuit + Uber | |
| Graphs C | hinese postman | Intuit | |
| | Vater jug | Intuit + Uber | |
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| Graphs <u>V</u> | Vater Jug 2 | MakeMyTrip MAQ Software | |
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| Tries <u>C</u> | Construct a trie from scratch | Accolite Amazon D-E-Shaw FactSet Microsoft | |
| Tries P | rint unique rows in a given boolean matrix | Amazon Zoho | |
| | Vord Break Problem (Trie solution) | Amazon Google Hike IBM MAQ Software Microsoft Walmart Zoho | |
| | | | |
| | siven a sequence of words, print all anagrams together | Amazon D-E-Shaw Goldman Sachs Morgan Stanley Snapdeal Microsoft | |
| Tries | ind shortest unique prefix for every word in a given list | Microsoft Google | |
| Tries <u>Ir</u> | mplement a Phone Directory | Amazon + Microsoft + Snapdeal | |
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| DP K | napsack with Duplicate Items | Amazon | |
| _ | BT counter | Microsoft | |
| | | | |
| | leach a given score | Samsung | |
| DP <u>N</u> | Maximum difference of zeros and ones in binary string | Ola | |
| DP C | limbing Stairs | Intuit | |
| DP P | Permutation Coefficient | Amazon | |
| | | | |
| | ongest Repeating Subsequence | Google + Amazon | |
| DP P | airs with specific difference | Ola | |
| DP L | ongest subsequence-1 | Amazon | |
| | ioin Change | Microsoft+ Samsung + Barclays + Apple + Adobe | |
| | IS | Amazon + Google + Facebook + Fidelity International | |
| | | | |
| | ongest Common Subsequence | Siemens + Amazon + Google | |
| <u>V</u> | <u>Vord Break</u> | Amazon + Google + Microsoft + Walmart + Apple + IBM | |
| DP | Combination Sum IV | Adobe Amazon Microsoft | |
| | House Robber | Apple + Uber | |
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| | <u>Ioue Robber 2</u> | Arrays Dynamic Programming | |
| DP D | Decode Ways | Adobe + Uber | |
| DP | Inique Paths | Google + Microsoft | |
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| DP C | atalan Number | Amazon + Google | |
| DP E | dit Distance | Google + Goldman Sachs + Citrix | |
| | | | |
| | <u>ubset Sum</u> | Amazon + Google | |
| DP G | <u>fold mine</u> | Samsung | |
| DP A | ssembly Line Scheduling | Goldman Sachs | |
| DP M | Maximize The Cut Segments | Amazon OYO Rooms Microsoft | |
| | Aaximum sum increasing subsequence | | |
| | | Amazon Morgan Stanley Microsoft | |
| DP C | ount all subsequences having product less than K | Goldman Sachs | |
| DP M | Maximum sum increasing subsequence | Amazon Morgan Stanley Microsoft | |
| DP E | gg dropping puzzle | Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Software N | |
| | Max length chain | Amazon Microsoft | |
| | • | | |
| | argest Square in Matrix | Amazon Samsung | |
| DP <u>№</u> | Maximum Path Sum | Amazon + Microsoft + Oyo + Directi | |
| DP | Minimum Number of Jumps | Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Google Flipk | |
| | /inimum removals from array to make max – min <= K | Amazon | |
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| | ount Palindromic Subsequences | Myntra | |
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| | ongest Alternating Sequence | Ola | |
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| | oin Game | Salesforce | |
| | ioin Game Winner | Ola | |
| | | | |
| | Optimal Strategy for a game | Google + IBM | |
| | <u>Vord Wrap</u> | Microsoft | |
| DP <u>M</u> | Mobile numeric keypad | Amazon Microsoft | |
| | Maximum Length of Pair Chain | Amazon Microsoft | |
| | | | |
| DD. | Matrix Chain Multiplication | Walmart + Flipkart | |
| | Maximum profit by buying and selling a share at most twice | Accolite Amazon Microsoft | |
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| DP M | Optimal BST | Google | |
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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) | |
| 11010 | racar rime r to so rimis (sasea on Qs) | |
| Topics | Question | Remarks |
| Strings | Edit Distance | use Dune aging Dungunganing (if a sprikle) |
| Strings | Edit Distance | use Dynaming Programming (if possible) |
| | | |
| Searching & Sorting | Sort a Nearly Sorted (or K sorted) Array | |
| Searching & Sorting | How to Efficiently Sort a Big List Dates in 20's | |
| Searching & Sorting | find a repeating and a missing number | |
| Searching & Sorting | sort array according count set bits | |
| Searching & Sorting | Minimum Swaps to Make Two Array Identical | |
| Searching & Sorting | Insert in Sorted and Non-Overlapping Interval Array | |
| Searching & Sorting | 3-Way QuickSort | |
| | | |
| | | |
| Backtracking | Find if There is a Path of More Than k Length From a Source | |
| Backtracking | Match a Pattern and String without Using Regular Expressions | |
| | | |
| Linked List | Josephus Circle implementation using STL list | |
| Linked List | Find a triplet from three linked lists with sum equal to a given Number | per |
| Linked List | Pair with given sum | Jei . |
| Linked List | Select a random node from a singly linked list | |
| Linked List | First non repeating character | |
| LIIIKCU LISU | Instrion repeating character | |
| | | |
| Stacks & Queues | Implement Stack using Queue or heap | |
| Stacks & Queues | Sum of minimum-maximum elements subarrays size-k | |
| Stacks & Queues | Minimum time required so that all oranges become rotten | |
| Stacks & Queues | Efficiently implement k-queues single array | |
| | | |
| Consider | Maria tara a susa a Gara Luca a satisfa a sa | |
| Greedy | Maximize array sum after k-negation operations | |
| Greedy | Program for shortest job first or sjf-cpu scheduling set 1 non-preem | i <u>ptive</u> |
| | | |
| Binary Trees | Check Mirror in N-ary tree | |
| Binary Trees | Maximum sum of nodes in Binary tree such that no two are adjacer | nt |
| • | | |
| | | |
| Binary Search Trees | Brothers From Different Roots | |
| | | |
| Heaps & Hashing | Check the condition | |
| Heaps & Hashing | Check if an array can be divided into pairs whose sum is divisible by | k |
| Heaps & Hashing | Design a effective DSA | |
| Heaps & Hashing | Find number of Employees Under every Manager | |
| Heaps & Hashing | Pancake Sorting | |
| | | |
| | | |
| Graphs | Bride in a graph | |
| Graphs | Seven Bridges of Königsberg | |
| Graphs | Minimum edges to reverse to make path from a source to a destina | <u>tion</u> |
| | | |
| P.D. | Marriagora Cruza Da ata valla | |
| DP | Maximum Sum Rectangle | |

| DP | Interleaved Strings |
|----|--|
| DP | Painting the Fence |
| DP | Largest independent Set |
| DP | Minimum cost to fill given weight in a bag |
| DP | Boolean Parenthesization |
| DP | Maximum Profit |
| DP | Palindromic Partitioning |