

## DSA by Shradha Didi & Aman Bhaiya

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How to solve this sheet?

<b>Easy</b>	Ideal Time : 5-10 mins
<b>Medium</b>	Ideal Time : 15-20 mins
<b>Hard</b>	Ideal Time : 40-60 mins (based on Qs)   88 Qs

Topics	Question (375)	Companies		Remarks
		Companies	Companies	
Arrays	Maximum and Minimum Element in an Array	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMware Google Adobe Infosys Moonfrog Labs		
Arrays	Reverse the Array	Microsoft + Facebook Interview Qs		use Kadane's Algorithm
Arrays	Maximum-Subarray	Amazon Interview Qs		
Arrays	Contains-Duplicate	Amazon Interview Qs		
Arrays	Chocolate Distribution Problem	Microsoft Google Adobe Amazon D-E-Shaw Flipkart Hike Intuit MakeMyTrip P		
Arrays	Search in Rotated Sorted Array	Uber + Goldman Sachs + Adobe Interview Qs		
Arrays	Next Permutation	Amazon D-E-Shaw Directi Flipkart Goldman Sachs Intuit MakeMyTrip Microsoft		
Arrays	Best time to Buy and Sell Stock	Amazon Interview Qs		
Arrays	Repeat and Missing Number Array	Amazon Microsoft Walmart Adobe		
Arrays	Kth-Largest Element in an Array	Samsung Interview Qs		
Arrays	Trapping Rain Water	Microsoft + Facebook Interview Qs		use auxiliary arrays
Arrays	Product of Array Except Self	Amazon D-E-Shaw MicroSoft Morgan Stanley OYO Rooms Google		
Arrays	Maximum Product Subarray	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet		
Arrays	Find Minimum in Rotated Sorted Array	Microsoft + Google + Apple Interview Qs		
Arrays	Find Pair with Sum in Sorted & Rotated Array	Adobe Amazon Microsoft Morgan Stanley Samsung Snapdeal Times Internet		
Arrays	3Sum	Flipkart + Dunzo Interview Qs		
Arrays	Container With Most Water	Infosys + Amazon + Flipkart Interview Qs		
Arrays	Given Sum Pair	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMware Google Adobe		
Arrays	Kth - Smallest Element	Google Interview Qs		
Arrays	Merge Overlapping Intervals	Amazon		
Arrays	Find Minimum Number of Merge Operations to Make an Array Palindrome	Barclays Interview Qs		
Arrays	Given an Array of Numbers Arrange the Numbers to Form the Biggest Number	Amazon		
Arrays	Space Optimization Using Bit Manipulations	Snapdeal Microsoft		
Arrays	Subarray-Sum Divisible K	Amazon		
Arrays	Print all Possible Combinations of r Elements in a Given Array of Size n	Microsoft		
Arrays	Möis Algorithm	Adobe		
		Ola + Amdocs IQ		
Strings	Valid Palindrome	Morgan Stanley Paytm Zoho		
Strings	Valid Anagram	Nagarro Media.net Directi Google Adobe Flipkart		use Stacks (if possible)
Strings	Valid parentheses	Google Interview Qs		
Strings	Remove Consecutive Characters	Samsung + Adobe		
Strings	Longest Common Prefix	Adobe + Grofers + Dunzo Interview Qs		
Strings	Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence	Adobe		
Strings	Print all the Duplicates in the Input String	Ola + Amdocs IQ		
Strings	Longest Substring without Repeating Characters	Morgan Stanley + Amazon IQ		
Strings	Longest Repeating Character Replacement	Amazon Google		
Strings	Group Anagrams	Samsung + Adobe + Amazon Interview Qs		

Strings	Longest Palindromic Substring	Microsoft + Google + Samsung + Visa IQ
Strings	Palindromic Substrings	Microsoft IQ
Strings	Next Permutation	Adobe + Goldman Sachs + Uber
Strings	Count Pallindromic Subsequences	Mytria Interview Qs
Strings	Smallest Window in a String Containing all the Characters of Another String	Microsoft + Amazon IQ
Strings	Wildcard String Matching	Microsoft + Ola IQ
Strings	Longest Prefix Suffix	Flipkart + Swiggy IQ
Strings	Rabin-Karp Algorithm for Pattern Searching	Microsoft
Strings	Transform One String to Another using Minimum Number of Given Operation	Directi
Strings	Minimum Window Substring	Amazon Google MakeMyTrip Streamoid Technologies Microsoft Media.net At
Strings	Boyer-Moore Algorithm for Pattern Searching	Amdocs
Strings	Word Wrap	Microsoft
2D Arrays	Zigzag (or diagonal) Traversal of Matrix	use Dynamning Programming
2D Arrays	Set Matrix Zeroes	Amazon
2D Arrays	Spiral Matrix	Amazon Microsoft
2D Arrays	Rotate Image	Flipkart + Apple + Societe Generale IQ
2D Arrays	Word Search	Microsoft Paytm Samsung Adobe
2D Arrays	Find the Number of Islands   Set 1 (Using DFS)	Google + Ola + Goldman Sachs IQ
2D Arrays	Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'	Microsoft + Uber + Apple + Amazon IQ
2D Arrays	Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix	Read about DFS
2D Arrays	Create a Matrix with Alternating Rectangles of O and X	Google
2D Arrays	Maximum Size Rectangle of all 1s	MAQ Software Microsoft VMWare
Searching & Sorting	Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K	Samsung
Searching & Sorting	Counting sort	Samsung+ Morgan Stanley+ Snapdeal + EPAM Systems
Searching & Sorting	find common elements three sorted arrays	MAQ Software Microsoft VMWare
Searching & Sorting	Searching in an array where adjacent differ by at most k	TCS Amazon
Searching & Sorting	ceiling in a sorted array	TCS
Searching & Sorting	Pair with given difference	Amazon Visa
Searching & Sorting	majority element	Amazon+ Google
Searching & Sorting	counttriplets with sum smaller than a given value	Amazon SAP Labs
Searching & Sorting	Maximum Sum Subsequence with no adjacent elements	Amazon FactSet Oixgen Wallet OYO Rooms Paytm Walmart Yahoo Adobe Flip
Searching & Sorting	Merge Sorted Arrays using O(1) Space	Amdocs Brocade Goldman Sachs Juniper Networks LinkedIn Microsoft Quikr
Searching & Sorting	Inversion of Array	Adobe Amazon BankBazaar Flipkart Microsoft Myntra MakeMyTrip
Searching & Sorting	Find Duplicates in O(n) Time and O(1) Extra Space.	Amazon D-E-Shaw Flipkart Paytm Qualcomm Zoho
Searching & Sorting	Radix Sort	Amazon+ Microsoft
Searching & Sorting	Product of Array except itself	Accolite Amazon D-E-Shaw Intuit Morgan Stanley Opera Microsoft Flipkart
Searching & Sorting	Make all Array Elements Equal	Amazon
Searching & Sorting	Check if Reversing a Sub Array Make the Array Sorted	Adobe Amazon Google Microsoft OYO Rooms
Searching & Sorting	Find Four Elements that Sum to a Given Value	Amazon Samsung Microsoft Google
Searching & Sorting	Median of Two Sorted Array with Different Size	Amazon + Google
Searching & Sorting	Median of Stream of Integers Running Integers	Paytm Adobe
Searching & Sorting	Print Subarrays with O Sum	Adobe
Searching & Sorting	Aggressive Cows	Google Infosys Codenation Amazon Microsoft
Searching & Sorting	Allocate Minimum number of Pages	Amazon + Google
Searching & Sorting	Minimum Swaps to Sort	

Backtracking	Backtracking Set 2 Rat in a Maze	Microsoft Amazon
Backtracking	Combinational Sum	Adobe Amazon Microsoft
Backtracking	Crossword-Puzzle	Microsoft
Backtracking	Longest Possible Route in a Matrix with Hurdles	Microsoft
Backtracking	Printing all solutions in N-Queen Problem	Accolite Amazon Andocs D-E-Shaw MAQ Software Twitter Visa Microsoft
Backtracking	Solve the Sudoku	Amazon Directi Flipkart MakeMyTrip MAQ Software Microsoft Ola Cabs Oracle
Backtracking	Partition Equal Subset Sum	Amazon + Adobe + Accolite + Traveloka
Backtracking	M Coloring Problem	Amazon
Backtracking	Knight Tour	IBM
Backtracking	Sudoku	Amazon + Adobe + Accolite + Traveloka
Backtracking	Remove Invalid Parentheses	Uber
Backtracking	Word Break Problem using Backtracking	Facebook Amazon Microsoft
Backtracking	Print all Palindromic Partitions of a String	Facebook Amazon Microsoft
Backtracking	Find Shortest Safe Path with Landmines	Amazon
Backtracking	Partition of Set into K Subsets with Equal Sum	Amazon
Backtracking	Backtracking set-7 hamiltonian cycle	Google
Backtracking	tug-of-war	Amazon + Adobe + Accolite + Traveloka
Backtracking	Maximum Possible Number by doing at most K swaps	Goldman Sachs
Backtracking	Backtracking set-8 solving cryptarithmetic puzzles	Meta
Backtracking	Find paths from corner cell to middle cell in maze	Flipkart
Backtracking	Arithmetical Expressions	
Linked List	Reverse Linked List	Sprinklr
Linked List	Linked List Cycle	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAC
Linked List	Merge Two Sorted Lists	Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Microsoft OA
Linked List	Delete without Head node	Amazon Goldman Sachs Kritical Solutions Microsoft Samsung Visa
Linked List	Remove duplicates from an unsorted linked list	Amazon Intuit
Linked List	Sort a linked list of 0s-1s-or-2s	Microsoft Amazon MakeMyTrip
Linked List	Multiply two numbers represented linked lists	Amazon
Linked List	Remove nth node from end of list	Accolite Adobe Amazon Citicorp Epic Systems FactSet Hike MAQ Software Mo
Linked List	Reorder List	Amazon Microsoft OYO Rooms Intuit
Linked List	Detect and remove loop in a linked list	Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyTrip MAC
Linked List	Write a Function to get the Intersection Point of two Linked Lists	Amazon
Linked List	Flatten a linked list with next and child pointers	Google
Linked List	Linked list in zig-zag fashion	Microsoft
Linked List	Reverse a doubly linked list	Walmart
Linked List	Delete nodes which have a greater value on right side	Amazon
Linked List	Segregate even and odd Elements in a Linked List	Walmart
Linked List	Point to next higher value node in a linked list with an Arbitrary Pointer	GeekyAnts
Linked List	Rearrange a given linked list in place	Ola Uber
Linked List	Sort Biotomic Doubly Linked Lists	Morgan Stanley
Linked List	Merge K Sorted Lists	Microsoft+ Ola+ eBay
Linked List	Merge sort for linked list	Accolite Adobe Amazon MAQ Software Microsoft Paytm Veritas
Linked List	Quicksort on singly-linked list	Paytm
Linked List	Sum of two linked lists	Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Qualcomm S
Linked List	Flattening a linked list	24*7 Innovation Labs Amazon DrishtiSoft Flipkart Goldman Sachs Microsoft

Linked List	Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists			
Stacks & Queues	Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues	24*7 Innovation Labs Microsoft Samsung Snapdeal Amazon + Google + Facebook Facebook		
Stacks & Queues	Queue Reversal Implement Stack Queue using Deque	Amazon + Morgan Stanley Microsoft Atlassian Microsoft + Amdocs MaQ Software		
Stacks & Queues	Reverse first k elements of queue Design Stack with Middle Operation	Amazon + Samsung + Vmware Inc Amazon Google Microsoft Visa Goldman Sachs		
Stacks & Queues	Infix to Postfix Design and Implement Special Stack.	Google Microsoft		
Stacks & Queues	Longest Valid String	Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Google Visa		
Stacks & Queues	Find if an expression has duplicate parenthesis or not Stack permutations check if an array is stack permutation of other	Amazon Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft Microsoft Flipkart Google + Visa + Apple Visa		
Stacks & Queues	Count natural numbers whose permutation greater number Sort a stack using Recursion	Flipkart + Facebook Facebook		
Stacks & Queues	Queue based approach for first non-repeating character in a stream The Celebrity Problem	Codenation Codenation Flipkart Flipkart		
Stacks & Queues	Next larger Element Distance of nearest cell	Google + Visa + Apple Microsoft Flipkart		
Stacks & Queues	Rotten-oranges Next smaller element	Amazon Microsoft Flipkart Microsoft + Uber + Alibaba Uber		
Stacks & Queues	Circular-tour Efficiently implement k-stacks single array	Facebook Accolite Amazon Morgan Stanley Oracle Paytm Samsung Snapdeal Synopsis Google		
Stacks & Queues	The celebrity problem Iterative tower of hanoi	Amazon Flipkart Amazon		
Stacks & Queues	Find the maximum of minimums for every window size in a given array Iru cache implementation	Microsoft Amazon Flipkart Microsoft + Acolite		
Stacks & Queues	Find a tour that visits all stations	Microsoft		
Greedy	Activity selection problem greedy algo	Facebook Morgan Stanley Flipkart		
Greedy	Greedy algorithm to find minimum number of coins	Accolite Amazon Morgan Stanley Oracle Paytm Samsung Snapdeal Synopsis Google		
Greedy	Minimum sum two numbers formed digits array-2	Amazon		
Greedy	Minimum sum absolute difference pairs two arrays	Flipkart Amazon		
Greedy	Find maximum height pyramid from the given array of objects	Microsoft Amazon Flipkart		
Greedy	Minimum cost for acquiring all coins with k extra coins allowed with every coin	Microsoft + Acolite		
Greedy	Find maximum equal sum of every three stacks Job sequencing problem	Microsoft		
Greedy	Greedy algorithm egyptian fraction	Amazon Microsoft		
Greedy	Fractional knapsack problem	MAQ Software OYO Rooms		
Greedy	Maximum length chain of pairs	Macafe		
Greedy	Find smallest number with given number of digits and digit sum	Google		
Greedy	Maximize sum of consecutive differences circular-array	Amazon		
Greedy	paper-cut minimum number squares	Flipkart		
Greedy	Lexicographically smallest array-k consecutive swaps	Problems-CHOCOLA		
Greedy	Problems-CHOCOLA			

<b>Greedy</b>	Find minimum time to finish all jobs with given constraints	Samsung
<b>Greedy</b>	Job sequencing using disjoint set union	Amazon Microsoft
<b>Greedy</b>	Rearrange characters string such that no two adjacent are same	Amazon + Microsoft + flipkart + Adobe
<b>Greedy</b>	Minimum edges to reverse to make path from a source to a destination	Amazon + Microsoft + Facebook
<b>Greedy</b>	Minimize Cash Flow among a given set of friends who have borrowed money from each other	Accolite Adobe Amazon Cisco D-E-Shaw Flipkart
<b>Greedy</b>	Minimum Cost to cut a board into squares	Microsoft + Adobe + Cisco Networking Academy
		Amdocs
		Amazon Cisco FactSet Hike Snapdeal Walmart Microsoft Flipkart
		Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Sta
		Amazon Amazon
		Amazon Walmart Microsoft
		Amazon FactSet Microsoft Samsung Walmart
		Amazon Microsoft
		Amazon Microsoft Flipkart
		Accolite Amazon Microsoft
		Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMy
		Amazon Microsoft OYO Rooms
		Microsoft + Adobe + Expedia Group
		DE Shaw India
		Amazon Microsoft
		Accolite Amazon FactSet Hike Kritical Solutions
		Microsoft Morgan Stanley OYO Rooms Payu Samsung Snapdeal Flipkart
		Adobe Amazon
		Google
		Microsft Amazon American Express Cisco Expedia Flipkart MakeMyTrip Micro:
		Amazon LinkedIn Ola Cab Qualcomm Samsung
		Ola
		Josh Technology Group
		Samsung + Facebook
		Flipkart InMobi LinkedIn MAQ Software Microsoft Paytm Quikr Yahoo
		Accolite Amazon Goldman Sachs Microsoft Morgan Stanley Salesforce Snapd
		Accolite Amazon Goldman Sachs
<b>Binary Trees</b>	Lowest Common Ancestor of a Binary Search Tree	Accolite Amazon Flipkart MAQ Software Microsoft Samsung Synopsys
<b>Binary Trees</b>	Binary Search Tree   Set 1 (Search and Insertion)	Accolite Amazon Microsoft Paytm Samsung
<b>Binary Trees</b>	Minimum element in BST	Microsoft
<b>Binary Trees</b>	Predecessor and Successor	Google + Adobe + Goldzman Sachs + Direct
<b>Binary Trees</b>	Print all k-sum paths in a binary tree	Walmart
<b>Binary Trees</b>	Binary Tree to DLL	HSBC
<b>Binary Search Trees</b>	Duplicate Subtrees	
<b>Binary Search Trees</b>	Kth ancestor of a node in binary tree	
<b>Binary Search Trees</b>	Binary Tree Maximum Path Sum	
<b>Binary Search Trees</b>	Serialize and Deserialize Binary Tree	
<b>Binary Search Trees</b>	Binary Tree to DLL	
<b>Binary Search Trees</b>	Print all k-sum paths in a binary tree	
<b>Binary Search Trees</b>	Binary Tree to BST	

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 Wooler Amazc
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
Heaps & Hashing	Choose k array elements such that difference of maximum and minimum is minimized	Adobe
Heaps & Hashing	Heap Sort	Amazon Microsoft
Heaps & Hashing	Top K Frequent Elements	Amazon Microsoft Walmart Adobe
Heaps & Hashing	k largest elements in an array	Amazon + Microsoft + Flipkart + Adobe
Heaps & Hashing	Next Greater Element	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMware Google Adobe
Heaps & Hashing	Kth Smallest/Largest Element in Unsorted Array	Accolite Amazon
Heaps & Hashing	Find the maximum repeating number in O(n) time and O(1) extra space	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMware Google Adobe
Heaps & Hashing	K-th smallest element after removing some integers from natural numbers	Amazon OYO Rooms
Heaps & Hashing	Find k closest elements to a given value	Amazon Cisco Hike OYO Rooms Walmart Microsoft Flipkart
Heaps & Hashing	Kth largest element in a stream	AmazonZoom + Oyo + Goldman Sachs
Heaps & Hashing	Connect Ropes	Amazon
Heaps & Hashing	Cuckoo Hashing	Microsoft + Ola + eBay
Heaps & Hashing	Itinerary from a List of Tickets	Adobe Amazon MakeMyTrip Microsoft
Heaps & Hashing	Largest Subarray with 0 Sum	Accolite Amazon Microsoft
Heaps & Hashing	Count distinct elements in every window of size k	Oracle
Heaps & Hashing	Group Shifted Strings	Microsoft + Ola + eBay
Heaps & Hashing	Merge K Sorted lists	Adobe Amazon Apple Belzabar D-E-Shaw Facebook Flipkart Google Intuit Mic
Heaps & Hashing	Find Median from Data Stream	Amazon Directi Flipkart Microsoft Google
Heaps & Hashing	Sliding Window Maximum	Accolite Amazon Samsung Snapdeal
Heaps & Hashing	Find the smallest positive number	Amazon Morgan Stanley Ola Cabs SAP Labs
Heaps & Hashing	Find Surpasser Count of each element in array	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft
Heaps & Hashing	Tournament Tree and Binary Heap	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho
Heaps & Hashing	Check for palindrome	Amazon Intuit Microsoft
Heaps & Hashing	Length of the largest subarray with contiguous elements	Amazon Morgan Stanley Ola Cabs SAP Labs
Heaps & Hashing	Palindrome Substring Queries	Microsoft + Ola + eBay
Heaps & Hashing	Subarray distinct elements	MAQ Software
Heaps & Hashing	Find the recurring function	Amazon
Heaps & Hashing	K maximum sum combinations from two arrays	Samsung + Delivery + SAP Labs
Graphs	BFS	Samsung + -Intuit + Goldman Sachs
Graphs	DFS	Samsung + Goldman Sachs

<b>Graphs</b>	Flood Fill Algorithm	Google + Adobe + Apple
<b>Graphs</b>	Number of Triangles	IBM
<b>Graphs</b>	Detect cycle in a graph	Lenksart
<b>Graphs</b>	Detect cycle in an undirected graph	Samsung
<b>Graphs</b>	Rat in a Maze Problem	Sharechat + Directi
<b>Graphs</b>	Steps by Knight	Samsung
<b>Graphs</b>	Clone graph	Google + MAQ Software + Apple + Facebook
<b>Graphs</b>	Number of Operations to Make Network Connected	Samsung
<b>Graphs</b>	Dijkstra's shortest path algorithm	Amazon
<b>Graphs</b>	Topological Sort	Amazon + Google + Flipkart + Oyo + Flipkart + Samsung
<b>Graphs</b>	Oliver and the Game	Sharechat + Directi
<b>Graphs</b>	Minimum time taken by each job to be completed given by a Directed Acyclic Graph	Amazon
<b>Graphs</b>	Find whether it is possible to finish all tasks or not from given dependencies	Directi + Sharechat
<b>Graphs</b>	Find the number of islands	Razorpay
<b>Graphs</b>	Prim's Algo	Visa
<b>Graphs</b>	Negative Weighted Cycle	Amazon
<b>Graphs</b>	Floyd Warshall	Google + Uber
<b>Graphs</b>	Graph Coloring	Morgan Stanley
<b>Graphs</b>	Snakes and Ladders	Goldman Sachs + Makemytrip
<b>Graphs</b>	Kosaraju's Theorem	Paytm
<b>Graphs</b>	Journey to moon	Lenksart + Payload
<b>Graphs</b>	Vertex Cover	Intuit
<b>Graphs</b>	M. Coloring Problem.	Uber
<b>Graphs</b>	Cheapest Flights Within K Stops	Uber + Paypal
<b>Graphs</b>	Find if there is a path of more than k length from a source	Cisco + Intuit
<b>Graphs</b>	Bellman Ford	Sharechat + Directi
<b>Graphs</b>	Bipartite Graph	Microsoft Flipkart
<b>Graphs</b>	Word-Ladder	Microsoft
<b>Graphs</b>	Allen Dictionary	Samsung
<b>Graphs</b>	Kruskals MST	Amazon Cisco Samsung
<b>Graphs</b>	Total number spanning trees graph	Amazon Cisco Samsung Microsoft Flipkart
<b>Graphs</b>	Travelling Salesman	Google + Microsoft + Opera
<b>Graphs</b>	Find longest path directed acyclic graph	Google
<b>Graphs</b>	Two Clique Problem	Microsoft
<b>Graphs</b>	Minimise the cash flow	Intuit + Uber
<b>Graphs</b>	Chinese postman	Intuit
<b>Graphs</b>	Water Jug.	Intuit + Uber
<b>Graphs</b>	Water Jug 2	MakeMyTrip MAQ Software
<b>Tries</b>	Construct a trie from scratch	Accolite Amazon D-E-Shaw FactSet Microsoft
<b>Tries</b>	Print unique rows in a given boolean matrix	Amazon Zoho
<b>Tries</b>	Word Break Problem   Trie solution	Amazon Google Hike IBM MAQ Software Microsoft Walmart Zoho
<b>Tries</b>	Given a sequence of words, print all anagrams together	Amazon D-E-Shaw Goldman Sachs Morgan Stanley Snapdeal Microsoft
<b>Tries</b>	Find shortest unique prefix for every word in a given list	Microsoft Google
<b>Tries</b>	Implement a Phone Directory	Amazon + Microsoft + Snapdeal
<b>DP</b>	Knapsack with Duplicate Items	Amazon

DP	BBT counter	Microsoft
DP	Reach a given score	Samsung
DP	Maximum difference of zeros and ones in binary string	Ola
DP	Climbing Stairs	Intuit
DP	Permutation Coefficient	Amazon
DP	Longest Repeating Subsequence	Google + Amazon
DP	Pairs with specific difference	Ola
DP	Longest Subsequence=1	Amazon
DP	Coin Change	Microsoft+ Samsung + Barclays + Apple + Adobe
DP	LIS	Amazon + Google + Facebook + Fidelity International
DP	Longest Common Subsequence	Siemens + Amazon + Google
DP	Word Break	Amazon + Google + Microsoft + Walmart + Apple + IBM
DP	Combination Sum IV	Adobe Amazon Microsoft
DP	House Robber	Apple + Uber
DP	House Robber 2	Arrays Dynamic Programming
DP	Decode Ways	Adobe + Uber
DP	Unique Paths	Google + Microsoft
DP	Jumps Game	Facebook Amazon Microsoft Google
DP	Knapsack Problem	Amazon Directi Flipkart GreyOrange Microsoft Mobicip Morgan Stanley Oracle Google
DP	nCr	Amazon + Google
DP	Catalan Number	Google + Goldman Sachs + Citrix
DP	Edit Distance	Amazon + Google
DP	Subset Sum	Samsung
DP	Gold mine	Goldman Sachs
DP	Assembly Line Scheduling	Amazon OYO Rooms Microsoft
DP	Maximize The Cut Segments	Amazon Morgan Stanley Microsoft
DP	Maximum sum increasing subsequence	Goldman Sachs
DP	Count all subsequences having product less than K	Amazon Morgan Stanley Microsoft
DP	Maximum sum increasing subsequence	Amazon DeShaw Goldman Sachs Google Hike MakeMyTrip MAQ Software
DP	Egg dropping puzzle	Amazon Microsoft
DP	Max length chain	Amazon Samsung
DP	Largest Square in Matrix	Amazon + Microsoft + Oyo + Directi
DP	Maximum Path Sum	Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Google Flipk
DP	Minimum Number of Jumps	Amazon Webarch Club
DP	Minimum removals from array to make max - min <= K	Amazon + Accelite + Traveloka + Adobe
DP	Longest Common Substring	Amazon Google
DP	Partition Equal Subset Sum	Myntta
DP	Longest Palindromic Subsequence	Amazon + Microsoft + Samsung + Visa
DP	Count Palindromic Subsequences	Ola
DP	Longest Palindromic Substring	Intuit
DP	Longest Alternating Sequence	Salesforce
DP	Weighted Job Scheduling	Ola
DP	Coin Game	Google + IBM
DP	Coin Game Winner	Microsoft
DP	Optimal Strategy for a game	Amazon Microsoft
DP	Word Wrap	Amazon Microsoft
DP	Mobile numeric keypad	Amazon Microsoft
DP	Maximum Length of Pair Chain	Amazon Microsoft
DP	Matrix Chain Multiplication	Walmart + Flipkart

<b>DP</b>	Maximum profit by buying and selling a share at most twice	Accolite Amazon Microsoft Google
<b>DP</b>	Optimal BST	
<b>DP</b>	Largest Submatrix with sum 0	Amazon Makemytrip Microsoft
<b>DP</b>	Largest area rectangular sub-matrix with equal number of 1's and 0's	Amazon Directi Intuit Makemytrip Microsoft Samsung Google Flipkart
<b>Bit Manipulation</b>	Count set bits in an integer	Adobe Apple
<b>Bit Manipulation</b>	Find the two non-repeating elements in an array of repeating elements	Accolite Amazon FactSet Google Makemytrip Microsoft Qualcomm Samsung
<b>Bit Manipulation</b>	Program to find whether a no is power of two	Adobe
<b>Bit Manipulation</b>	Find position of the only set bit	Microsoft
<b>Bit Manipulation</b>	Count number of bits to be flipped to convert A to B	Maq Software
<b>Bit Manipulation</b>	Count total set bits in all numbers from 1 to n	Microsoft
<b>Bit Manipulation</b>	Copy set bits in a range	Facebook
<b>Bit Manipulation</b>	Calculate square of a number without using * / and pow()	Amazon
<b>Bit Manipulation</b>	Divide two integers without using multiplication, division and mod operator	Microsoft
<b>Bit Manipulation</b>	Power Set	Google + Adobe + Paytm
<b>Segment Trees</b>	Range Sum Query - Immutable	Google Interview Qs
<b>Segment Trees</b>	Range Minimum Query	
<b>Segment Trees</b>	Range Sum Query - Mutable	Alibaba
<b>Segment Trees</b>	Create Sorted Array through Instructions	Samsung + Accolite
<b>Segment Trees</b>	Count of Range Sum	Walmart
<b>Segment Trees</b>	Count of Smaller Numbers After Self	Codename Google