	DSA by Shradha Didi & Aman I	3haiva					
	APPLE DSA SHEET		How to solve this sheet?				
Easy	Ideal Time : 5-10 mins						
Medium Hard	Ideal Time : 15-20 mins Ideal Time : 40-60 mins (based on Qs) 88 Qs	5 Questions each Day					
Topics Arrays	Question (375) Maximum and Minimum Element in an Array.	Companies ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google	Remarks e Adobe				
Arrays Arrays	Reverse the Array Maximum-Subarray Containe Dualitate	Infosys Moonfrog Labs Microsoft + Facebook Interview Qs Amazon Interview Os	use Kadane's Algorithm				
Arrays Arrays	Contains Duplicate Chocolate Distribution Problem Search in Rotated Sorted Array	Amazon Interview Qs Amazon Interview Qs Microsoft Google Adobe Amazon D-E-Shaw Flipkart Hike Intuit MakeM	lyTrin Paytm				
Arrays Arrays	Next Permutation Best time to Buy and Sell Stock	Uber + Goldman Sachs + Adobe Interview Qs Amazon D-E-Shaw Directi Flipkart Goldman Sachs Intuit MakeMyTrip N		Dubmatic (Culty Calactorea Capiant Swiggy Walma	rt Madia not	Coogle
Arrays Arrays	Repeat and Missing Number Array	Amazon Interview Qs	licrosoft Ola Cabs Oracle Paytif	Pubmatic (Quikr Salesforce Sapient Swiggy Walma	rt wedia.net	Google
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Arrays Arrays	Find Minimum Number of Merge Operations to Make an Array Palindrome Given an Array of Numbers Arrange the Numbers to Form the Biggest Number	Amazon Barclays Interview Qs					
Arrays Arrays	Space Optimization Using Bit Manipulations Subarray Sum Divisible K	Amazon Snapdeal Microsoft					
Arrays Arrays	Print all Possible Combinations of r Elements in a Given Array of Size n Mo's Algorithm	Amazon Microsoft					
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Strings Strings	Valid Palindrome Valid Anagram	Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoh Nagarro Media.net Directi Google Adobe Flipkart	0				
Strings Strings	Valid parentheses Remove Consecutive Characters	Google Interview Qs Samsung + Adobe	use Stacks (if possible)				
Strings Strings	Longest Common Prefix Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence	Adobe + Grofers + Dunzo Interview Qs Adobe					
Strings Strings	Print all the Duplicates in the Input String Longest Substring without Repeating Characters	Ola + Amdocs IQ Morgan Stanley + Amazon IQ					
Strings Strings	Longest Repeating Character Replacement Group Anagrams	Amazon Google Samsung + Adobe + Amazon Interview Qs					
Strings Strings	Longest Palindromic Substring Palindromic Substrings	Microsoft + Google + Samsung + Visa IQ Microsoft IQ					
Strings Strings	Next Permutation Count Palindromic Subsequences	Adobe + Goldman Sachs + Uber Myntra Interview Qs					
Strings Strings	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ					
Strings Strings	Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching	Flipkart + Swiggy IQ Microsoft					
Strings Strings	Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring	Directi Amazon Google MakeMyTrip Streamoid Technologies Microsoft Media	a.net Atlassian Flipkart				
Strings Strings	Boyer Moore Algorithm for Pattern Searching Word Wrap	Amdocs Microsoft	use Dynaming Programming				
2D Arrays 2D Arrays	Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes	Amazon Amazon Microsoft					
2D Arrays 2D Arrays	Spiral Matrix Rotate Image	Flipkart + Apple + Societe Generale IQ Microsoft Paytm Samsung Adobe					
2D Arrays 2D Arrays	Word Search Find the Number of Islands Set 1 (Using DFS)	Google + Ola + Goldman Sachs IQ Microsoft + Uber + Apple + Amazon IQ	Read about DFS				
2D Arrays 2D Arrays	Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X' Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix	Google MAQ Software Microsoft VMWare					
2D Arrays 2D Arrays	Create a Matrix with Alternating Rectangles of O and X Maximum Size Rectangle of all 1s	MAQ VMWare Amazon Microsoft					
Constitute & Continue		Company					
Searching & Sorting Searching & Sorting	Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K counting sort	Samsung Samsung+ Morgan Stanley+ Snapdeal + EPAM Systems MAQ Software Microsoft VMWare					
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Searching & Sorting Searching & Sorting	ceiling in a sorted array. Piar with given difference	TCS Amazon Visa					
Searching & Sorting Searching & Sorting	majority element count triplets with sum smaller that a given value	Amazon+ Google Amazon SAP Labs Amazon FactSet Oxigen Wallet OYO Rooms Paytm Walmart Yahoo Add	aha Eliakast				
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Backtracking Backt	Knight Tour Soduko Remove Invalid Parentheses Word Break Problem using Backtracking Print all Palindromic Partitions of a String Find Shortest Safe Route in a Path with Landmines Partition of Set into K Subsets with Equal Sum Backtracking set-7 hamiltonian cycle tug-of-war Maximum Possible Number by doing at most K swaps Backtracking set-8 solving cryptarithmetic puzzles Find paths from corner cell to middle cell in maze Arithmetic Expressions Reverse Linked List Linked List Cycle Merge Two Sorted Lists Delete without Head node Remove duplicates from an unsorted linked list Sort a linked list of 0s-1s-or-2s Multiply two numbers represented linked lists Remove nth node from end of list Reorder List Detect and remove loop in a linked list Write a Function to get the Intersection Point of two Linked Lists Flatten a linked list with next and child pointers Linked list in zig-zag fashion Reverse a doubly linked list Delete nodes which have a greater value on right side Segregate even and odd Elements in a Linked List Point to next higher value node in a linked list with an Arbitrary Pointer Rearrange a given linked list in place Sort Biotonic Doubly Linked Lists Merge K Sorted Lists Merge K Sorted Lists Merge sort for linked list Quicksort on singly-linked list Sum of two linked list Flone a linked list the next and random Pointer Subtract two numbers represented as linked lists	IBM Amazon + Adobe + Accolite + Traveloka Uber Facebook Amazon Microsoft Facebook Amazon Microsoft Amazon Amazon Google Amazon + Adobe + Accolite + Traveloka Goldman Sachs Meta Flipkart Sprinklr Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyT Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Micro Amazon Goldman Sachs Kritikal Solutions Microsoft Samsung Visa Amazon Intuit Microsoft Amazon MakeMyTrip Amazon Accolite Adobe Amazon Citicorp Epic Systems FactSet Hike MAQ Softw Amazon Microsoft OYO Rooms Intuit Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyT Amazon Microsoft Micorsoft Walmart Amazon Microsoft Walmart GeekyAnts Ola Uber Morgan Stanley Microsoft+ Ola+ eBay Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Microsoft+ Ola+ eBay Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Quale 24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Catholic Manazon Goldman Sachs Microsoft Goldman Sachs Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Quale 24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Microsoft Goldman Sachs Microsoft Goldman Sachs	are Monotype Solutions Morga are Monotype Solutions Morga in MAQ Software OYO Rooms in Management in	n Stanley O	YO Rooms Qualcomm Samsung Snapde comm Samsung SAP Labs Snapdeal Ver	eal Flipkart	
Backtracking Backt	Knight Tour Soduko Remove Invalid Parentheses Word Break Problem using Backtracking Print all Palindromic Partitions of a String Find Shortest Safe Route in a Path with Landmines Partition of Set into K Subsets with Landmines Partition of Set into K Subsets with Landmines Partition of Set into K Subsets with Equal Sum Backtracking set-7 hamiltonian cycle tug-of-war Maximum Possible Number by doing at most K swaps Backtracking set-8 solving cryptarithmetic puzzles Find paths from corner cell to middle cell in maze Arithmetic Expressions Reverse Linked List Linked List Cycle Merge Two Sorted Lists Delete without Head node Remove duplicates from an unsorted linked list Sort a linked list of 0s-15-or-2s Multiply two numbers represented linked lists Removenth node from end of list Reorder List Detect and remove loop in a linked list Write a Function to get the Intersection Point of two Linked Lists Elatten a linked list with next and child pointers Linked list in zig-zag fashion Reverse a doubly linked list Delete nodes which have a greater value on right side Segregate even and odd Elements in a Linked List Point to next higher value node in a linked list with an Arbitrary Pointer Rearrange a given linked list in place Sort Biotonic Doubly Linked Lists Merge K Sorted Lists Merge sort for linked list Quicksort on singly-linked list Clone a linked list with next and random Pointer. Subtract two numbers represented as linked lists	IBM Amazon + Adobe + Accolite + Traveloka Uber Facebook Amazon Microsoft Facebook Amazon Microsoft Amazon Amazon Google Amazon + Adobe + Accolite + Traveloka Goldman Sachs Meta Flipkart Sprinklr Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyT Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Micro Amazon Goldman Sachs Kritikal Solutions Microsoft Samsung Visa Amazon Intuit Microsoft Amazon MakeMyTrip Amazon Accolite Adobe Amazon Citicorp Epic Systems FactSet Hike MAQ Softw Amazon Microsoft OYO Rooms Intuit Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyT Amazon Google Micorsoft OYO Rooms Intuit Accolite Amazon D-E-Shaw Hike Lybrate Mahindra Comviva MakeMyT Amazon Google Micorsoft Walmart Armazon Walmart GeekyAnts Ola Uber Morgan Stanley Microsoft* Ola+ eBay Accolite Adobe Amazon MAQ Software Microsoft Paytm Veritas Paytm Accolite Amazon Flipkart MakeMyTrip Microsoft Morgan Stanley Quale 24*7 Innovation Labs Amazon Drishti-Soft Flipkart Goldman Sachs Mit Triology Amazon Goldman Sachs	are Monotype Solutions Morga are Monotype Solutions Morga in MAQ Software OYO Rooms in Management in	n Stanley O	YO Rooms Qualcomm Samsung Snapde comm Samsung SAP Labs Snapdeal Ver	eal Flipkart	

Stacks & Queues Stacks & Queues	Reverse first k elements of queue Design Stack with Middle Operation	Microsoft + Amdocs MaQ Software	· <u>-</u>					
Stacks & Queues Stacks & Queues Stacks & Queues	Infix to Postfix Design and Implement Special stack Longest Valid String	Amazon + Samsung + Paytm + Vmware inc Amazon Google Microsoft Visa Goldman Sachs Google Microsoft						
Stacks & Queues Stacks & Queues Stacks & Queues	Find if an expression has duplicate parenthesis or not Stack permutations check if an array is stack permutation of other Count natural numbers whose permutation greater number	Flipkart Oracle OYO Rooms Snapdeal Walmart Yatra.com Microsoft Go Visa Amazon	ogle					
Stacks & Queues Stacks & Queues Stacks & Queues	Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem	Amazon Goldman Sachs IBM Intuit Kuliza Yahoo Microsoft Microsoft Flipkart Google + Visa + Apple						
Stacks & Queues Stacks & Queues Stacks & Queues	Next larger Element Distance of nearest cell Rotten-oranges	Visa Flipkar + Facebook Facebook						
Stacks & Queues Stacks & Queues Stacks & Queues	Next smaller element Circular-tour Efficiently implement k-stacks single array	Codenation Codenation Flipkart Flipkart						
Stacks & Queues Stacks & Queues Stacks & Queues Stacks & Queues	The celebrity problem Iterative tower of hanoi	Google + Visa + Apple Microsoft Flipkart Amazon Microsoft Flipkart						
Stacks & Queues Stacks & Queues Stacks & Queues	Find the maximum of minimums for every window size in a given array Iru cache implementation Find a tour that visits all stations	Microsoft + Uber + Alibaba Uber						
Greedy	Activity selection problem greedy algo	Facebook Morgan Stanley Flipkart						
Greedy Greedy Greedy	Greedy algorithm to find minimum number of coins Minimum sum two numbers formed digits array-2 Minimum sum absolute difference pairs two arrays	Accolite Amazon Morgan Stanley Oracle Paytm Samsung Snapdeal Syr Google Amazon	opsys Visa Microsoft Google					
Greedy Greedy Greedy	Find maximum height pyramid from the given array of objects Minimum cost for acquiring all coins with k extra coins allowed with every coin Find maximum equal sum of every three stacks	_ Flipkart Amazon Microsoft Amazon Flipkart						
Greedy Greedy Greedy	Job sequencing problem Greedy algorithm egyptian fraction Fractional knapsack problem	Microsoft + Acolite 						
Greedy Greedy Greedy	Maximum length chain of pairs Find smallest number with given number of digits and digit sum Maximize sum of consecutive differences circular-array	Amazon Microsoft MAQ Software OYO Rooms Maccafe						
Greedy Greedy Greedy	paper-cut minimum number squares Lexicographically smallest array-k consecutive swaps Problems-CHOCOLA	Google Amazon Flipkart						
Greedy Greedy Greedy	Find minimum time to finish all jobs with given constraints Job sequencing using disjoint set union Rearrange characters string such that no two adjacent are same	Samsung Amazon Microsoft						
Greedy Greedy	Minimum edges to reverse to make path from a source to a destination Minimize Cash Flow among a given set of friends who have borrowed money from each	h other						
Greedy Rinary Trees	Minimum Cost to cut a board into squares Maximum Dooth of Binagu Tree	Maccafe Amazon Cadence India CouponDunia D.E. Shaw EartSet FreeCharge M.	skoMvTrin					
Binary Trees Binary Trees Binary Trees	Maximum Depth of Binary Tree Reverse Level Order Traversal Subtree of Another Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge Mi Amazon + Microsoft + flipkart + Adobe Amazon + Microsoft + Facebook	женунтр					
Binary Trees Binary Trees Binary Trees	Invert Binary Tree Binary Tree Level Order Traversal Left View of Binary Tree	Amazon Hike Accolite Adobe Amazon Cisco D-E-Shaw Flipkart Microsoft + Adobe + Cisco Networking Academy						
Binary Trees Binary Trees Binary Trees	Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree	Amdocs Amazon Cisco FactSet Hike Snapdeal Walmart Microsoft Flipkart Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morg	an Stanley Myntra Ola Cabs Payl	tm				
Binary Trees Binary Trees Binary Trees	Leaf at same level Check for Balanced Tree Transform to Sum Tree	Amazon Amazon Walmart Microsoft Amazon FactSet Microsoft Samsung Walmart						
Binary Trees Binary Trees Binary Trees	Check if Tree is Isomorphic. Same Tree Construct Binary Tree from Preorder and Inorder Traversal	Amazon Microsoft Amazon Microsoft Flipkart Accolite Amazon Microsoft						
Binary Trees Binary Trees Binary Trees	Height of Binary Tree. Diameter of a Binary Tree Top View of Binary Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge Ma Amazon Microsoft OYO Rooms Microsoft + Adobe + Expedia Group	nkeMyTrip					
Binary Trees Binary Trees Binary Trees	Bottom View of Binary Tree Diagonal Traversal of Binary Tree Boundary Traversal of binary tree	DE Shaw India Amazon Microsoft Accolite Amazon FactSet Hike Kritikal Solutions						
Binary Trees Binary Trees	Construct Binary Tree from String with Brackets Minimum swap required to convert binary tree to binary search tree	Microsoft Morgan Stanley OYO Rooms Payu Samsung Snapdeal Flipka Adobe Amazon	rt					
Binary Trees Binary Trees Binary Trees	Duplicate subtree in Binary Tree Check if a given graph is tree or not Lowest Common Ancestor in a Binary Tree	Google Microsoft Amazon Accolite Amazon Express Cisco Expedia Flipkart MakeMyTrip	Microsoft OYO Room					
Binary Trees Binary Trees Binary Trees	Min distance between two given nodes of a Binary Tree Duplicate Subtrees Kth ancestor of a node in binary tree	Amazon Linkedin MakeMyTrip Ola Cabs Qualcomm Samsung Ola Josh Technology Group						
Binary Trees Binary Trees Binary Trees	Binary Tree Maximum Path Sum Serialize and Deserialize Binary Tree Binary Tree to DLL	Samsung + Facebook Flipkart InMobi Linkedin MAQ Software Microsoft Paytm Quikr Yahoo Accolite Amazon Goldman Sachs Microsoft Morgan Stanley Salesforce	Snapdeal					
Binary Trees	Print all k-sum paths in a binary tree	Accolite Amazon Goldman Sachs						
Binary Search Trees Binary Search Trees Binary Search Trees	Lowest Common Ancestor of a Binary Search Tree Binary Search Tree Set 1 (Search and Insertion) Minimum element in BST	Accolite Amazon Flipkart MAQ Software Microsoft Samsung Synopsys Accolite Amazon Microsoft Paytm Samsung Microsoft						
Binary Search Trees Binary Search Trees Binary Search Trees	Predecessor and Successor Check whether BST contains Dead End Binary Tree to BST	Google + Adobe + Goladman Sachs + Direct Walmart HSBC						
Binary Search Trees Binary Search Trees Binary Search Trees	Kth largest element in BST Validate Binary Search Tree Kth Smallest Element in a BST	Accolite Amazon Samsung SAP Labs Microsoft OYO Rooms Qualcomm Samsung Snapdeal VMWare Walmart Wooker Accolite Amazon Google	Amazon Facebook					
Binary Search Trees Binary Search Trees Binary Search Trees	Delete Node in a BST Flatten BST to sorted list Preorder to Postorder	Adobe Barclays Microsoft Amazon Linkedin Flipkart						
Binary Search Trees Binary Search Trees Binary Search Trees	Count BST nodes that lie in a given range. Populate inorder Successor for all Nodes Convert Normal BST to Balanced BST	D-E-Shaw Google Sap labs Paytm						
Binary Search Trees Binary Search Trees Binary Search Trees	Merge two BSTs Given n appointments, find all conflicting appointments Replace every element	DE Shaw India Samsung Samsung						
Binary Search Trees Binary Search Trees Binary Search Trees	Construct BST from given preorder traversal Find median of BST in O(n) time and O(1) space Largest BST in a Binary Tree	Adobe Morgan Stanley Microsoft Amazon 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 Heaps & Hashing Heaps & Hashing	Heap Sort Top K Frequent Elements k largest elements in an array	Adobe Amazon Microsoft Amazon Microsoft Walmart Adobe	- -					
Heaps & Hashing Heaps & Hashing Heaps & Hashing	Next Greater Element Kth Smallest/Largest Element in Unsorted Array. Find the maximum repeating number in O(n) time and O(1) extra space	Amazon + Microsoft + Flipkart + Adobe ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Accolite Amazon	Adobe					
Heaps & Hashing Heaps & Hashing Heaps & Hashing Heaps & Hashing	K-th smallest element after removing some integers from natural numbers Find k closest elements to a given value K'th largest element in a stream	ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Amazon OYO Rooms Amazon Cisco Hike OYO Rooms Walmart Microsoft Flipkart	Adobe					
Heaps & Hashing Heaps & Hashing Heaps & Hashing Heaps & Hashing	Connect Ropes Cuckoo Hashing Itinerary from a List of Tickets	Amazon + Oyo + Goldman Sachs Amaxon Microsoft + Ola + eBay	- - -					
Heaps & Hashing Heaps & Hashing	Largest Subarray with 0 Sum Count distinct elements in every window of size k	Amazon MakeMyTrip Microsoft Accolite Amazon Microsoft Oracle	- - -					
Heaps & Hashing Heaps & Hashing Heaps & Hashing	Group Shifted Strings Merge K Sorted lists Find Median from Data Stream Slidian Window Maximum	Microsoft + Ola + eBay Adobe Amazon Apple Belzabar D-E-Shaw Facebook Flipkart Google Int	uit Microsoft Morgan Stanley Ola	Cabs Oracle	Samsung	g SAP Labs Yahoo		
Heaps & Hashing Heaps & Hashing Heaps & Hashing	Sliding Window Maximum Find the smallest positive number Find Surpasser Count of each element in array.	Amazon Directi Flipkart Microsoft Google Accolite Amazon Samsung Snapdeal Amazon Morgan Stanley Ola Cabs SAP Labs						
Heaps & Hashing Heaps & Hashing Heaps & Hashing	Tournament Tree and Binary Heap Check for palindrome Length of the largest subarray with contiguous elements	Amazon Ola Cabs Samsung Synopsys Walmart Microsoft Amazon Cisco D-E-Shaw Facebook FactSet Morgan Stanley Paytm Zoho Amazon Intuit Microsoft						
Heaps & Hashing Heaps & Hashing Heaps & Hashing	Palindrome Substring Queries Subarray distinct elements Find the recurring function	Amazon Morgan Stanley Ola Cabs SAP Labs Microsoft + Ola + eBay MAQ Software						
Heaps & Hashing	K maximum sum combinations from two arrays	Amazon						
Graphs Graphs Graphs	BES DES Flood Fill Algorithm	Samsung + Delhivery + SAP Labs Samsung + Intuit + Goldman Sachs Google + Adobe + Apple						
Graphs Graphs Graphs	Number of Triangles Detect cycle in a graph Detect cycle in an undirected graph.	IBM Lenksart Samsung						
Graphs Graphs Graphs	Rat in a Maze Problem Steps by Knight Clone graph	Sharechat + Directi Samsung Google + MAQ Software + Apple + Facebook						
Graphs Graphs Graphs	Number of Operations to Make Network Connected Dijkstra's shortest path algorithm Topological Sort	Samsung Amazon Amazon + Google + Flipkart + Oyo + Fipkart + Samsung						
Graphs	Oliver and the Game Minimum time taken by each job to be completed given by a Directed Acyclic Graph	Sharechat + Directi Amazon						
Graphs Graphs								
Graphs Graphs Graphs Graphs Graphs	Find whether it is possible to finish all tasks or not from given dependencies Find the number of islands Find's Algo Negative Weighted Cycle	Directi + Sharechat Razorpay Visa Amazon						

Graphs Graphs	County Collection	Manager Charles						
Grapns	Graph Coloring	Morgan Stanley						
	Snakes and Ladders	Goldman Sachs +Makemytrip						
Graphs	Kosaraju's Theorem	Paytm						
Graphs	Journey to moon	Lenksart + Payload						
Graphs	<u>Vertex Cover</u>	Intuit						
Graphs	M Coloring Problem	Uber						
Graphs	<u>Cheapest Flights Within K Stops</u>	Uber + Paypal						
Graphs	Find if there is a path of more than k length from a source	Cisco + Intuit						
Graphs	Bellman Ford	Sharechat + Directi						
Graphs	Bipartitie Graph	Microsoft Flipkart						
Graphs	Word-Ladder	Microsoft						
Graphs	Allen Dictionary	Samsung						
Graphs	Kruskals MST	Amazon Cisco Samsung	Important					
		Amazon Cisco Samsung Microsoft Flipkart	Important					
Graphs	Total number spanning trees graph		I and a second					
Graphs	Travelling Salesman	Google + Microsoft + Opera	Important					
Graphs	Find longest path directed acyclic graph	Google						
Graphs	Two Clique Problem	Microsoft						
Graphs	Minimise the cash flow	Intuit + Uber						
Graphs	Chinese postman	Intuit						
Graphs	Water Jug	Intuit + Uber						
Graphs	Water Jug 2	MakeMyTrip MAQ Software						
Grapiis	Water jug 2	Makeiny Trip MAQ Software						
		A 15 A D 5 O A A A A A A A A A A A A A A A A A A						
Tries	Construct a trie from scratch	Accolite Amazon D-E-Shaw FactSet Microsoft						
Tries	Print unique rows in a given boolean matrix	Amazon Zoho						
Tries	Word Break Problem (Trie solution)	Amazon Google Hike IBM MAQ Software Microsoft Walmart Zoho						
Tries	Given a sequence of words, print all anagrams together	Amazon D-E-Shaw Goldman Sachs Morgan Stanley Snapdeal Microsoft						
Tries	Find shortest unique prefix for every word in a given list	Microsoft Google						
Tries	Implement a Phone Directory	Amazon + Microsoft + Snapdeal						
	<u> </u>	+		1		1		
DP	Knapsack with Duplicate Items	Amazon		 		<u> </u>		1
				-	 		 	1
DP	BBT counter	Microsoft		-	 		\vdash	-
DP	Reach a given score	Samsung						ļ
DP	Maximum difference of zeros and ones in binary string	Ola						
DP	<u>Climbing Stairs</u>	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	<u>LIS</u>	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	Houe Robber 2	Arrays Dynamic Programming						
DP	Decode Ways	Adobe + Uber						
DP								
	<u>Unique Paths</u>	Google + Microsoft						
DP	Jumps Game	Facebook Amazon Microsoft Google						
DP	Knapsack Problem	Amazon Directi Flipkart GreyOrange Microsoft Mobicip Morgan Stanle	Oracle Payu Snapdeal Visa					
DP	<u>nCr</u>	Google						
DP	Catalan Number	Amazon + Google						
DP	Edit Distance	Google + Goldman Sachs + Citrix						
DP	Subset Sum	Amazon + Google						
DP	Gold mine	Samsung						
DP	Assembly Line Scheduling	Goldman Sachs						
DP	Maximize The Cut Segments	Amazon OYO Rooms Microsoft						
DP	Maximum sum increasing subsequence	Amazon Morgan Stanley Microsoft						
DP	Count all subsequences having product less than K	Goldman Sachs						
DP	Maximum sum increasing subsequence	Amazon Morgan Stanley Microsoft						
	Fac dranning purels	Arriazori Worgari Stariley Wicrosort	ware Myntra Nearbuy Opera (Samsung Service Now Unisys VMWare			
DP	Egg dropping puzzle		ware wyntia wearbuy Opera v	Oracle Philips		Microsoft		
DP	Egg dropping puzzle Max length chain	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft	ware Myritra Nearbuy Opera (Oracle Philips		Microsoft		
DP DP	Max length chain	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft	ware Myritia Nearbuy Opera (Oracle Philips		Microsoft		
DP DP DP	Max length chain Largest Square in Matrix	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung	ware myntra nearbdy Opera (Oracle Philips		Microsoft		
DP DP DP DP	Max length chain Largest Square in Matrix Maximum Path Sum	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi		Oracle Philips		Microsoft		
DP DP DP DP DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl		Oracle Philips		Microsoft		
DP DP DP DP DP DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps Minimum removals from array to make max – min <= K	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl Amazon		Oracle Philips		Microsoft		
DP DP DP DP DP DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps Minimum removals from array to make max – min <= K Longest Common Substring	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl Amazon Webarch Club		Oracle Philips		Microsoft		
DP DP DP DP DP DP DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps Minimum removals from array to make max – min <= K Longest Common Substring Partition Equal Subset Sum	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl Amazon Webarch Club Amazon + Accolite + Traveloca + Adobe		Oracle Philips		Microsoft		
DP DP DP DP DP DP DP DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps Minimum removals from array to make max – min <= K Longest Common Substring Partition Equal Subset Sum Longest Palindromic Subsequence	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl Amazon Webarch Club Amazon + Accolite + Traveloca + Adobe Amazon Google		Oracle Philips		Microsoft		
DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps Minimum removals from array to make max – min <= K Longest Common Substring Partition Equal Subset Sum Longest Palindromic Subsequence Count Palindromic Subsequences	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl Amazon Webarch Club Amazon + Accolite + Traveloca + Adobe Amazon Google Myntra		Oracle Philips		Microsoft		
DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps Minimum removals from array to make max – min <= K Longest Common Substring Partition Equal Subset Sum Longest Palindromic Subsequence Count Palindromic Subsequences Longest Palindromic Substring	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl Amazon Webarch Club Amazon + Accolite + Traveloca + Adobe Amazon Google Myntra Amazon + Microsoft + Samsung + Visa		Oracle Philips		Microsoft		
DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps Minimum removals from array to make max – min <= K Longest Common Substring Partition Equal Subset Sum Longest Palindromic Subsequence Count Palindromic Subsequences Longest Palindromic Substring Longest Alternating Sequence	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl Amazon Webarch Club Amazon + Accolite + Traveloca + Adobe Amazon Google Myntra Amazon + Microsoft + Samsung + Visa		Oracle Philips		Microsoft		
DP	Max length chain Largest Square in Matrix Maximum Path Sum Minimum Number of Jumps Minimum removals from array to make max – min <= K Longest Common Substring Partition Equal Subset Sum Longest Palindromic Subsequence Count Palindromic Subsequences Longest Palindromic Substring	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Soft Amazon Microsoft Amazon Samsung Amazon + Microsoft + Oyo + Directi Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Googl Amazon Webarch Club Amazon + Accolite + Traveloca + Adobe Amazon Google Myntra Amazon + Microsoft + Samsung + Visa		Oracle Philips		Microsoft		
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