	DSA by Shradha Didi & Aman Bhaiya Meet us on Youtube (Apna College)		How to solve this shee
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	
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Searching & Sorting	Aggressive Cows	Adobe	
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Searching & Sorting	Minimum Swaps to Sort	Amazon + Google	
Backtracking	Backtracking Set 2 Rat in a Maze	Microsoft Amazon	
Backtracking	Combinational Sum	Adobe Amazon Microsoft	
Backtracking	<u>Crossword-Puzzle</u>	Microsoft	
Backtracking	Longest Possible Route in a Matrix with Hurdles	Microsoft	
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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		
Backtracking	Backtracking set-7 hamiltonian cycle	Amazon Amazon	
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	
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Linked List	Reverse Linked List	Sprinklr	
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Linked List	Merge Two Sorted Lists	Accolite Amazon Belzabar Brocade FactSet Flipkart MakeMyTrip Microsoft OATS	
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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 Mone	
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 MAQ S	
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	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	Important
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Linked List	Subtract two numbers represented as linked lists	Amazon Goldman Sachs	
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Greedy			
Greedy	Minimum sum absolute difference pairs two arrays	Amazon	
Greedy	Find maximum height pyramid from the given array of objects	Flipkart Amazon	
Greedy	Minimum cost for acquiring all coins with k extra coins allowed with every coin		
Greedy	Find maximum equal sum of every three stacks	Microsoft Amazon Flipkart	
Greedy	lob sequencing problem	Microsoft + Acolite	
	1 01	WILLOSOIL + ACOILE	
Greedy	Greedy algorithm egyptian fraction		
Greedy	Fractional knapsack problem	Microsoft	
Greedy	Maximum length chain of pairs	Amazon Microsoft	
Greedy	Find smallest number with given number of digits and digit sum	MAQ Software OYO Rooms	
Greedy	Maximize sum of consecutive differences circular-array	Maccafe	
Greedy	paper-cut minimum number squares	Google	
Greedy	Lexicographically smallest array-k consecutive swaps	Amazon	
	Problems-CHOCOLA		
Greedy		Flipkart	
Greedy	Find minimum time to finish all jobs with given constraints		
Greedy	Job sequencing using disjoint set union	Samsung	
Greedy	Rearrange characters string such that no two adjacent are same	Amazon Microsoft	
Greedy	Minimum edges to reverse to make path from a source to a destination		
Greedy	Minimize Cash Flow among a given set of friends who have borrowed money from each other		
Greedy	Minimum Cost to cut a board into squares	Maccafe	
u.ccu,	minimum cost to cut a source into squares	maccare	
Binary Trees	Maximum Depth of Binary Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMyTri	
Binary Trees	Reverse Level Order Traversal	Amazon + Microsoft + flipkart + Adobe	
Binary Trees	Subtree of Another Tree	Amazon + Microsoft + Facebook	
Binary Trees	Invert Binary Tree	Amazon Hike	
Binary Trees	Binary Tree Level Order Traversal	Accolite Adobe Amazon Cisco D-E-Shaw Flipkart	
Binary Trees	Left View of Binary Tree	Microsoft + Adobe + Cisco Networking Academy	
Binary Trees	Right View of Binary Tree	Amdocs	
Binary Trees	ZigZag Tree Traversal	Amazon Cisco FactSet Hike Snapdeal Walmart Microsoft Flipkart	
Binary Trees	Create a mirror tree from the given binary tree	Accolite Adobe Amazon Belzabar EBay Goldman Sachs Microsoft Morgan Stanle	
Binary Trees	Leaf at same level	Amazon	
Binary Trees	Check for Balanced Tree	Amazon Walmart Microsoft	
Binary Trees	Transform to Sum Tree	Amazon FactSet Microsoft Samsung Walmart	
Binary Trees	Check if Tree is Isomorphic	Amazon Microsoft	
Binary Trees	Same Tree	Amazon Microsoft Flipkart	
Binary Trees	Construct Binary Tree from Preorder and Inorder Traversal	Accolite Amazon Microsoft	
Binary Trees	Height of Binary Tree	Amazon Cadence India CouponDunia D-E-Shaw FactSet FreeCharge MakeMyTri	
Binary Trees	Diameter of a Binary Tree	Amazon Microsoft OYO Rooms	
Binary Trees	Top View of Binary Tree	Microsoft + Adobe + Expedia Group	
Binary Trees	Bottom View of Binary Tree	DE Shaw India	
Binary Trees	Diagonal Traversal of Binary Tree	Amazon Microsoft	
Binary Trees	Boundary Traversal of binary tree	Accolite Amazon FactSet Hike Kritikal Solutions	
Binary Trees	Construct Binary Tree from String with Brackets	Microsoft Morgan Stanley OYO Rooms Payu Samsung Snapdeal Flipkart	
Binary Trees	Minimum swap required to convert binary tree to binary search tree	Adobe Amazon	
Binary Trees	<u>Duplicate subtree in Binary Tree</u>	Google	
Binary Trees	Check if a given graph is tree or not	Microsoft Amazon	
Binary Trees	Lowest Common Ancestor in a Binary Tree	Accolite Amazon American Express Cisco Expedia Flipkart MakeMyTrip Microso	
Binary Trees	Min distance between two given nodes of a Binary Tree	Amazon Linkedin MakeMyTrip Ola Cabs Qualcomm Samsung	
Binary Trees	Duplicate Subtrees	Ola	
Binary Trees	Kth ancestor of a node in binary tree	Josh Technology Group	
Binary Trees	Binary Tree Maximum Path Sum	Samsung + Facebook	
		-	
Binary Trees	Serialize and Deserialize Binary Tree	Flipkart InMobi Linkedin MAQ Software Microsoft Paytm Quikr Yahoo	
Binary Trees	Binary Tree to DLL	Accolite Amazon Goldman Sachs Microsoft Morgan Stanley Salesforce Snapdea	
Binary Trees	Print all k-sum paths in a binary tree	Accolite Amazon Goldman Sachs	
Dinamy Consek Toron	Lowest Common Ancester of a Binany Coareh Tree	Accelite Amazon Elinkart MAO Coffman Missage Communication	
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 Tree Set 1 (Search and Insertion) Minimum element in BST.		
Binary Search Trees	Binary Search Tree Set 1 (Search and Insertion)	Accolite Amazon Microsoft Paytm Samsung	
Binary Search Trees Binary Search Trees	Binary Search Tree Set 1 (Search and Insertion) Minimum element in BST.	Accolite Amazon Microsoft Paytm Samsung Microsoft	
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Binary Search Trees Heaps & Hashing	Binary Search Tree Set 1 (Search and Insertion) Minimum element in BST. Predecessor and Successor Check whether BST contains Dead End Binary Tree to BST Kth largest element in BST. Validate Binary Search Tree Kth Smallest Element in a BST Delete Node in a BST Delete Node in a BST Elatten BST to sorted list Preorder to Postorder Count BST nodes that lie in a given range. Populate Inorder Successor for all Nodes Convert Normal BST to Balanced BST Merge two BSTs Given n appointments, find all conflicting appointments Replace every element Construct BST from given preorder traversal Find median of BST in Ofn) time and O(1) space Largest BST in a Binary Tree Choose k array elements such that difference of maximum and minimum is minimized Heap. Sort Top K Frequent Elements Kth Smallest/Largest Element in Unsorted Array Find the maximum repeating number in O(n) time and O(1) strat space Kth smallest/Largest Element in Unsorted Array Find the maximum repeating number in O(n) time and O(1) extra space Kth smallest element after removing some integers from natural numbers Find k closest elements to a given value	Accolite Amazon Microsoft Paytm Samsung Microsoft Google + Adobe + Goladman Sachs + Direct Walmart HSBC Accolite Amazon Samsung SAP Labs Microsoft OYO Rooms Qualcomm Samsung Snapdeal VMWare Walmart Wooker Amazon Accolite Amazon Google Adobe Barclays Microsoft Amazon Linkedin Flipkart D-E-Shaw Google Sap labs Paytm DE Shaw India Samsung Samsung Adobe Morgan Stanley Microsoft Amazon D-E-Shaw Samsung Microsoft Flipkart Adobe Amazon Microsoft Hipkart Adobe Amazon Microsoft Hipkart Adobe Amazon Hicrosoft Walmart Adobe Amazon + Microsoft Flipkart + Adobe ABCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon OYO Rooms	
Binary Search Trees Heaps & Hashing	Binary Search Tree Set 1 (Search and Insertion) Minimum element in BST. Predecessor and Successor Check whether BST contains Dead End Binary Tree to BST Kth largest element in BST. Validate Binary Search Tree Kth Smallest Element in a BST Delete Node in a BST Elatten BST to sorted list Preorder to Postorder Count BST nodes that lie in a given range. Populate Inorder Successor for all Nodes Convert Normal BST to Balanced BST Merge two BSTS Given n appointments, find all conflicting appointments Replace every element Construct BST from given preorder traversal Eind median of BST in O(n) time and O(1) space Largest BST in a Binary Tree Choose k array elements Choose k array elements Largest elements in an array Next Greater Element Kth Smallest/Largest Element in Unsorted Array Eind the maximum repeating number in O(n) time and O(1) extra space Ksth smallest element after removing some integers from natural numbers Eind k closest elements to a given value Kth largest element in a stream	Accolite Amazon Microsoft Paytm Samsung Microsoft Google + Adobe + Goladman Sachs + Direct Walmart HSBC Accolite Amazon Samsung SAP Labs Microsoft OYO Rooms Qualcomm Samsung Snapdeal VMWare Walmart Wooker Amazon Accolite Amazon Google Adobe Barclays Microsoft Amazon Linkedin Flipkart D-E-Shaw Google Sap labs Paytm DE Shaw India Samsung Adobe Morgan Stanley Microsoft Amazon D-E-Shaw Samsung Microsoft Flipkart Adobe Amazon D-E-Shaw Samsung Microsoft Flipkart Adobe Amazon Microsoft Hamazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon AbCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon Cisco Hike Microsoft Flipkart	
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Binary Search Trees Heaps & Hashing	Binary Search Tree Set 1 (Search and Insertion) Minimum element in BST. Predecessor and Successor Check whether BST contains Dead End Binary Tree to BST Kth largest element in BST. Validate Binary Search Tree Kth Smallest Element in a BST Delete Node in a BST Elatten BST to sorted list Preorder to Postorder Count BST nodes that lie in a given range. Populate Inorder Successor for all Nodes Convert Normal BST to Balanced BST Merge two BSTS Given n appointments, find all conflicting appointments Replace every element Construct BST from given preorder traversal Eind median of BST in O(n) time and O(1) space Largest BST in a Binary Tree Choose k array elements Choose k array elements Largest elements in an array Next Greater Element Kth Smallest/Largest Element in Unsorted Array Eind the maximum repeating number in O(n) time and O(1) extra space Ksth smallest element after removing some integers from natural numbers Eind k closest elements to a given value Kth largest element in a stream	Accolite Amazon Microsoft Paytm Samsung Microsoft Google + Adobe + Goladman Sachs + Direct Walmart HSBC Accolite Amazon Samsung SAP Labs Microsoft OYO Rooms Qualcomm Samsung Snapdeal VMWare Walmart Wooker Amazon Accolite Amazon Google Adobe Barclays Microsoft Amazon Linkedin Flipkart D-E-Shaw Google Sap labs Paytm DE Shaw India Samsung Adobe Morgan Stanley Microsoft Amazon D-E-Shaw Samsung Microsoft Flipkart Adobe Amazon D-E-Shaw Samsung Microsoft Flipkart Adobe Amazon Microsoft Hamazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon AbCO Accolite Amazon Cisco Hike Microsoft Snapdeal VMWare Google Adobe Amazon Cisco Hike Microsoft Flipkart	

Heaps & Hashing	Itinerary from a List of Tickets	Microsoft + Ola + eBay	
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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	
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Graphs	Find whether it is possible to finish all tasks or not from given dependencies	Directi + Sharechat	
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D.D.	Cultura Curr	American Country	
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	
DP	Egg dropping puzzle	Amazon D-E-Shaw Goldman Sachs Google Hike MakeMyTrip MAQ Software My	
DP	Max length chain	Amazon Microsoft	
DP	Largest Square in Matrix	Amazon Samsung	
DP	Maximum Path Sum	Amazon + Microsoft + Oyo + Directi	
DP	Minimum Number of Jumps	Adobe Amazon Housing.com Moonfrog Labs Walmart Microsoft Google Flipkar	
DP	Minimum removals from array to make max – min <= K	Amazon	
DP	Longest Common Substring	Webarch Club	
DP	Partition Equal Subset Sum	Amazon + Accolite + Traveloca + Adobe	
DP	Longest Palindromic Subsequince	Amazon Google	
DP	Count Palindromic Subsequences	Myntra	
DP	Longest Palindromic Substring	Amazon + Microsoft + Samsung + Visa	
DP	Longest Alternating Sequence	Ola	
DP	Weighted Job Scheduling	Intuit	
DP	Coin Game	Salesforce	
DP DP	Coin Game Winner	Ola	
	Optimal Strategy for a game	Google + IBM	
DP	Word Wrap	Microsoft	
DP	Mobile numeric keypad	Amazon Microsoft	
DP	Maximum Length of Pair Chain	Amazon Microsoft	
DP	Matrix Chain Multiplication	Walmart + Flipkart	
DP DP	Maximum profit by buying and selling a share at most twice Optimal BST	Accolite Amazon Microsoft	
DP	Largest Submatrix with sum 0	Google	
DP	9	Amazon MakeMyTrip Microsoft	
DP	Largest area rectangular sub-matrix with equal number of 1's and 0's	Amazon Directi Intuit MakeMyTrip Microsoft Samsung Google Flipkart	
Bit Manipulation	Count set bits in an integer	Adobe Apple	
Bit Manipulation	Find the two non-repeating elements in an array of repeating elements	Accolite Amazon FactSet Google MakeMyTrip Microsoft Qualcomm Samsung	
Bit Manipulation	Program to find whether a no is power of two Find position of the only set bit	Adobe	
Bit Manipulation	The state of the s	Microsoft	
Bit Manipulation	Count number of bits to be flipped to convert A to B	Maq Software	
Bit Manipulation Bit Manipulation	Count total set bits in all numbers from 1 to n	Microsoft Facebook	
	Copy set bits in a range		
Bit Manipulation	Calculate square of a number without using *, / and pow() Divide two integers without using multiplication, division and mod operator	Amazon Microsoft	
Bit Manipulation			
Bit Manipulation	Power Set	Google + Adobe + Paytm	
Comment Turner	Description Over the search is		
Segment Trees	Range Sum Query - Immutable		
Segment Trees	Range Minimum Query	Google Interview Qs	
Segment Trees	Range Sum Query - Mutable	Alibaba	
Segment Trees	Create Sorted Array through Instructions	Samsung + Accolite	
Segment Trees	Count of Range Sum	Walmart	
Segment Trees	Count of Smaller Numbers After Self	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	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 Numbe	r
Linked List	Pair with given sum	
Linked List	Select a random node from a singly linked list	
Linked List	First non repeating character	
Charles 0 Occasion	Landa and Stade at a Constant and	
Stacks & Queues	Implement Stack using Queue or heap	
Stacks & Queues	Sum of minimum-maximum elements subarrays size-k	
Stacks & Queues Stacks & Queues	Minimum time required so that all oranges become rotten Efficiently implement k-queues single array	
Stacks & Queues	Linciently implement k-queues single array	
Greedy	Maximize array sum after k-negation operations	
Greedy	Program for shortest job first or sjf-cpu scheduling set 1 non-preempt	tive
Binary Trees	Check Mirror in N-ary tree	
Binary Trees	Maximum sum of nodes in Binary tree such that no two are adjacent	
Dillary Trees	maniform of modes in binary tree such that no two are adjacent	
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	
Troups of Trushing	- STORES OF STORES	

Graphs	Bride in a graph	
Graphs	Seven Bridges of Königsberg	
Graphs	Minimum edges to reverse to make path from a source to a destination	
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	