	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)	5 Questions each Day	
Topics Arrays	Question (375) Maximum and Minimum Element in an Array	Companies	Remarks
Arrays	Reverse the Array		
Arrays	Maximum-Subarray	Microsoft + Facebook Interview Qs	use Kadane's Algorithm
Arrays	Contains Duplicate		
Arrays	Chocolate Distribution Problem	Amazon Interview Qs	
Arrays	Search an Element in a Sorted and Pivoted Array		
Arrays	Next Permutation	Uber + Goldman Sachs + Adobe Interview Qs	
Arrays	Best time to Buy and Sell Stock	Amazon Interview Qs	
Arrays Arrays	Repeat and Missing Number Array Kth-Largest Element in an Array	Amazon interview Qs	
Arrays	Trapping Rain Water	Samsung Interview Qs	
Arrays	Product of Array Except Self	Microsoft + Facebook Interview Qs	
Arrays	Maximum Product Subarray		
Arrays	Find Minimum in Rotated Sorted Array		
Arrays	Search in Rotated Sorted Array	Microsoft + Google + Apple Interview Qs	
Arrays	3Sum		
Arrays	Container With Most Water	Flipkart + Dunzo Interview Qs	
Arrays	Given Sum Pair	Infosys + Amazon + Flipkart Interview Qs	
Arrays	Kth - Smallest Element Marrie Overlanging Intervals	Coogle Intensions On	
Arrays Arrays	Merge Overlapping Intervals Find Minimum Number of Merge Operations to Make an Array Palindrome	Google Interview Qs	
Arrays	Given an Array of Numbers Arrange the Numbers to Form the Biggest Number	Barclays Interview Qs	
Arrays	Space Optimization Using Bit Manipulations		
Arrays	Subarray Sum Divisible K		
Arrays	Print all Possible Combinations of r Elements in a Given Array of Size n		
Arrays	Mo's Algorithm		
Stuings	Volid Polinduana		
Strings	Valid Palindrome		
Strings	Valid Anagram		
Strings	Valid parentheses	Google Interview Qs	use Stacks (if possible
Strings	Remove Consecutive Characters		
Strings	Longest Common Prefix	Adobe + Grofers + Dunzo Interview Qs	
Strings	Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence		
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		
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		
Strings	Count Palindromic Subsequences	Myntra Interview Qs	
Strings	Smallest Window in a String Containing all the Characters of Another String	Microsoft + Amazon IQ	
Strings	Wildcard String Matching	Microsoft + Amazon + Ola IQ	
Strings	Longest Prefix Suffix	Flipkart + Swiggy IQ	
Strings	Rabin-Karp Algorithm for Pattern Searching		
Strings	Transform One String to Another using Minimum Number of Given Operation		
Strings	Minimum Window Substring		
Strings	Boyer Moore Algorithm for Pattern Searching		
Strings	Word Wrap		use Dynaming Programn
2D Arrays	Zigzag (or diagonal) Traversal of Matrix		
2D Arrays	Set Matrix Zeroes		
2D Arrays	Spiral Matrix	Flipkart + Apple + Societe Generale IQ	
2D Arrays	Rotate Image		
2D Arrays	Word Search	Google + Ola + Goldman Sachs IQ	
2D Arrays	Find the Number of Islands Set 1 (Using DFS)	Microsoft + Uber + Apple + Amazon IQ	Read about DFS
2D Arrays	Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'		
2D Arrays	Find a Common Element in all Rows of a Given Row-Wise Sorted Matrix		
2D Arrays	Create a Matrix with Alternating Rectangles of O and X		
	Maximum Size Rectangle of all 1s		

Searching & Sorting	Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K	
Searching & Sorting	counting sort	
	find common elements three sorted arrays	
Searching & Sorting	·	
Searching & Sorting	Searching in an array where adjacent differ by at most k	
Searching & Sorting	ceiling in a sorted array	
Searching & Sorting	Piar with given difference	
Searching & Sorting	majority element	
Searching & Sorting	count triplets with sum smaller that a given value	
Searching & Sorting	Maximum Sum Subsequence with no adjacent elements	
Searching & Sorting	Merge Sorted Arrays using O(1) Space	
Searching & Sorting	Inversion of Array	
Searching & Sorting	Find Duplicates in O(n) Time and O(1) Extra Space	
Searching & Sorting	Radix Sort	
Searching & Sorting	Product of Array except itself	
	Make all Array Elements Equal	
Searching & Sorting	* * * * * * * * * * * * * * * * * * * *	
Searching & Sorting	Check if Reversing a Sub Array Make the Array Sorted	
Searching & Sorting	<u>Find Four Elements that Sum to a Given Value</u>	
Searching & Sorting	Median of Two Sorted Array with Different Size	
Searching & Sorting	Median of Stream of Integers Running Integers	
Searching & Sorting	Print Subarrays with 0 Sum	
Searching & Sorting	Aggressive Cows	
Searching & Sorting	Allocate Minimum number of Pages	
Searching & Sorting	Minimum Swaps to Sort	
3		
Backtracking	Backtracking Set 2 Rat in a Maze	
Backtracking	Combinational Sum	
Backtracking	Crossword-Puzzle	
Backtracking	Longest Possible Route in a Matrix with Hurdles	
Backtracking	Printing all solutions in N-Queen Problem	
Backtracking	Solve the Sudoku	
Backtracking	Partition Equal Subset Sum	
Backtracking	M Coloring Problem	
Backtracking	Knight Tour	
Backtracking	Soduko	
Backtracking	Remove Invalid Parentheses	
Backtracking	Word Break Problem using Backtracking	
Backtracking	Print all Palindromic Partitions of a String	
Backtracking	Find Shortest Safe Route in a Path with Landmines	
Backtracking	Partition of Set into K Subsets with Equal Sum	
Backtracking	Backtracking set-7 hamiltonian cycle	
Backtracking	tug-of-war	
Backtracking	Maximum Possible Number by doing at most K swaps	
Backtracking	Backtracking set-8 solving cryptarithmetic puzzles	
Backtracking	Find paths from corner cell to middle cell in maze	
Backtracking	Arithmetic Expressions	
Linked List	Reverse Linked List	
Linked List	Linked List Cycle	
Linked List	Merge Two Sorted Lists	
Linked List	Delete without Head node	
Linked List	Remove duplicates from an unsorted linked list	
Linked List	Sort a linked list of 0s-1s-or-2s	
Linked List	Multiply two numbers represented linked lists	
Linked List	Remove nth node from end of list	
Linked List	Reorder List	
Linked List	Detect and remove loop in a linked list	
Linked List	Write a Function to get the Intersection Point of two Linked Lists	
Linked List	Flatten a linked list with next and child pointers	
Linked List	Linked list in zig-zag fashion	
Linked List	Reverse a doubly linked list	
Linked List	Delete nodes which have a greater value on right side	
Linked List	Segregate even and odd Elements in a Linked List	
Linked List	Point to next higher value node in a linked list with an Arbitrary Pointer	
	·	
Linked List	Rearrange a given linked list in place	
Linked List	Sort Biotonic Doubly Linked Lists	
Linked List	Merge K Sorted Lists	
Linked List	Merge sort for linked list	Important

Linked List	Quicksort on singly-linked list	Important
Linked List	Sum of two linked lists	
Linked List	Flattening a linked list	
Linked List	Clone a linked list with next and random Pointer	
Linked List	Subtract two numbers represented as linked lists	
Stacks & Queues	Implement two stacks in an Array	
Stacks & Queues	Evaluation of Postfix Expression	
Stacks & Queues	Implement Stack using Queues	
Stacks & Queues	Oueue Reversal	
-	·	
Stacks & Queues	Implement Stack Queue using Deque	
Stacks & Queues	Reverse first k elements of queue	
Stacks & Queues	Design Stack with Middle Operation	
Stacks & Queues	Infix to Postfix	
Stacks & Queues	Design and Implement Special stack	
Stacks & Queues	Longest Valid String	
Stacks & Queues	Find if an expression has duplicate parenthesis or not	
Stacks & Queues	Stack permutations check if an array is stack permutation of other	
Stacks & Queues	Count natural numbers whose permutation greater number	
Stacks & Queues	Sort a stack using Recursion	
Stacks & Queues	Queue based approach for first non repeating character in a stream	
Stacks & Queues	The Celebrity Problem	
Stacks & Queues	Next larger Element	
Stacks & Queues	Distance of nearest cell	
Stacks & Queues	Rotten-oranges	
Stacks & Queues	Next smaller element	
Stacks & Queues	<u>Circular-tour</u>	
Stacks & Queues	Efficiently implement k-stacks single array.	
	The celebrity problem	
Stacks & Queues	**	
Stacks & Queues	Iterative tower of hanoi	
Stacks & Queues	Find the maximum of minimums for every window size in a given array.	
Stacks & Queues	Iru cache implementation	
Stacks & Queues	Find a tour that visits all stations	
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Greedy	Activity selection problem greedy algo	
Greedy	Greedy algorithm to find minimum number of coins	
Greedy	Minimum sum two numbers formed digits array-2	
Greedy	Minimum sum absolute difference pairs two arrays	
Greedy	Find maximum height pyramid from the given array of objects	
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Greedy	Minimum cost for acquiring all coins with k extra coins allowed with every coin	
Greedy	Find maximum equal sum of every three stacks	
Greedy	Job sequencing problem	
Greedy	Greedy algorithm egyptian fraction	
•	Fractional knapsack problem	
Greedy		
Greedy	Maximum length chain of pairs	
Greedy	Find smallest number with given number of digits and digit sum	
Greedy	Maximize sum of consecutive differences circular-array	
Greedy	paper-cut minimum number squares	
Greedy	Lexicographically smallest array-k consecutive swaps	
Greedy	Problems-CHOCOLA	
Greedy	Find minimum time to finish all jobs with given constraints	
Greedy	Job sequencing using disjoint set union	
Greedy	Rearrange characters string such that no two adjacent are same	
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	
Binary Trees	Maximum Depth of Binary Tree	
Binary Trees	Reverse Level Order Traversal	
Binary Trees	Subtree of Another Tree	
Binary Trees	Invert Binary Tree	
Binary Trees	Binary Tree Level Order Traversal	
Binary Trees	Left View of Binary Tree	
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Binary Trees	Create a mirror tree from the given binary tree	
Binary Trees	Leaf at same level	
Binary Trees Binary Trees Binary Trees Binary Trees Binary Trees	Binary Tree Level Order Traversal Left View of Binary Tree Right View of Binary Tree ZigZag Tree Traversal Create a mirror tree from the given binary tree	

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	Binary Search Trees Heaps & Hashing	Merge two BSTs Given n appointments, find all conflicting appointments Replace every element Construct BST from given preorder traversal Find median of BST in O(n) 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 k largest elements in an array Next Greater Element K'th Smallest/Largest Element in Unsorted Array Find the maximum repeating number in O(n) time and O(1) extra space K-th smallest element after removing some integers from natural numbers Find k closest element in a stream Connect Ropes Cuckoo Hashing Itinerary from a List of Tickets Largest Subarray with 0 Sum Count distinct elements in every window of size k Group Shifted Strings Merge K Sorted lists Find Median from Data Stream Sliding Window Maximum	Important
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	Binary Search Trees Heaps & Hashing	Merge two BSTs Given n appointments, find all conflicting appointments Replace every element Construct BST from given preorder traversal Find median of BST in O(n) 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 k largest elements in an array Next Greater Element K'th Smallest/Largest Element in Unsorted Array Find the maximum repeating number in O(n) time and O(1) extra space K-th smallest elements to a given value K'th largest element in a stream Connect Ropes Cuckoo Hashing Itinerary from a List of Tickets Largest Subarray with 0 Sum Count distinct elements in every window of size k Group Shifted Strings Merge K Sorted lists Find Median from Data Stream Sliding Window Maximum Find the smallest positive number Find Surpasser Count of each element in array	Important

Heres O. H. J.		
Heaps & Hashing	Check for palindrome	
Heaps & Hashing	Length of the largest subarray with contiguous elements	
Heaps & Hashing	Palindrome Substring Queries	
	• •	
Heaps & Hashing	Subarray distinct elements	
Heaps & Hashing	Find the recurring function	
Heaps & Hashing	K maximum sum combinations from two arrays	
Graphs	238	
Graphs	DES	
Graphs	Flood Fill Algorithm	
	Number of Triangles	
Graphs	•	
Graphs	Detect cycle in a graph	
Graphs	Detect cycle in an undirected graph	
Graphs	Rat in a Maze Problem	
Graphs	Steps by Knight	
Graphs	Clone graph	
Graphs	Number of Operations to Make Network Connected	
Graphs	Dijkstra's shortest path algorithm	
Graphs	Topological Sort	
Graphs	Oliver and the Game	
Graphs	Minimum time taken by each job to be completed given by a Directed Acyclic Graph	
Graphs	Find whether it is possible to finish all tasks or not from given dependencies	
Graphs	Find the number of islands	
Graphs	Prim's Algo	
Graphs	Negative Weighted Cycle	
Graphs	Floyd Warshall	
Graphs	<u>Graph Coloring</u>	
Graphs	Snakes and Ladders	
Graphs	Kosaraju's Theorem	
Graphs	Journey to moon	
Graphs	<u>Vertex Cover</u>	
Graphs	M. Coloring Problem	
Graphs	Cheapest Flights Within K Stops	
Graphs	Find if there is a path of more than k length from a source	
Graphs	Bellman Ford	
Graphs	Bipartitie Graph	
-	Word-Ladder	
Graphs		
Graphs	Allen Dictionary	
Graphs	Kruskals MST	Important
Graphs	Total number spanning trees graph	
Graphs	Travelling Salesman	
		Important
Graphs	Find longest path directed acyclic graph.	Important
Graphs Graphs		Important
Graphs	Two Clique Problem	Important
Graphs Graphs	Two Clique Problem Minimise the cash flow	Important
Graphs Graphs Graphs	Two Clique Problem Minimise the cash flow Chinese postman	Important
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Graphs Graphs Graphs Graphs Graphs Graphs Tries Tries Tries Tries Tries Tries DP	Two Clique Problem Minimise the cash flow Chinese postman Water Jug. Water Jug 2 Construct a trie from scratch Print unique rows in a given boolean matrix Word Break Problem (Trie solution) Given a sequence of words, print all anagrams together Find shortest unique prefix for every word in a given list Implement a Phone Directory Knapsack with Duplicate Items BBT counter Reach a given score Maximum difference of zeros and ones in binary string Climbing Stairs Permutation Coefficient Longest Repeating Subsequence	Important
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DP	Word Break		
DP	Combination Sum IV		
DP	House Robber		
DP	Houe Robber 2		
DP	Decode Ways		
DP	Unique Paths		
DP	Jumps Game		
DP	Knapsack Problem		
DP	nCr		
	Catalan Number		
DP			
DP	<u>Edit Distance</u>		
DP	Subset Sum		
DP	Gold mine		
DP	Assembly Line Scheduling		
DP	Maximize The Cut Segments		
DP	Maximum sum increasing subsequence		
DP	Count all subsequences having product less than K		
DP	Maximum sum increasing subsequence		
DP	Egg dropping puzzle		
DP	Max length chain		
DP	Largest Square in Matrix		
DP	Maximum Path Sum		
DP	Minimum Number of Jumps		
DP	Minimum removals from array to make max – min <= K		
DP	Longest Common Substring		
	-		
DP	Partition Equal Subset Sum		
DP	Longest Palindromic Subsequnce		
DP	Count Palindromic Subsequences		
DP	Longest Palindromic Substring		
DP	Longest Alternating Sequence		
DP	Weighted Job Scheduling		
DP	<u>Coin Game</u>		
DP	Coin Game Winner		
DP	Optimal Strategy for a game		
DP	Word Wrap		
DP	Mobile numeric keypad		
DP	Maximum Length of Pair Chain		
DP	Matrix Chain Multiplication		
DP	Maximum profit by buying and selling a share at most twice		
DP	Optimal BST		
DP	Largest Submatrix with sum 0		
DP	Largest area rectangular sub-matrix with equal number of 1's and 0's		
υr	rangest area rectangular sub-matrix with edual Hallington 1.2 and 0.2		
Bit Manipulation	Count set bits in an integer		
Bit Manipulation	Find the two non-repeating elements in an array of repeating elements		
Bit Manipulation	Program to find whether a no is power of two		
Bit Manipulation	Find position of the only set bit		
Bit Manipulation	Count number of bits to be flipped to convert A to B		
Bit Manipulation	Count total set bits in all numbers from 1 to n		
Bit Manipulation	Copy set bits in a range		
-	Calculate square of a number without using *, / and pow()		
Bit Manipulation	• • • • • • • • • • • • • • • • • • • •		
Bit Manipulation	Divide two integers without using multiplication, division and mod operator		
Bit Manipulation	Power Set		
Segment Trees	Range Sum Query - Immutable		
ochinelle Hees		C 111 1 0	
_	Range Minimum Query		
Segment Trees	Range Minimum Query. Range Sum Query. Mutable	Google Interview Qs	
Segment Trees Segment Trees	Range Sum Query - Mutable	Google Interview Qs	
Segment Trees Segment Trees Segment Trees	Range Sum Query - Mutable Create Sorted Array through Instructions	Google Interview Qs	
Segment Trees Segment Trees	Range Sum Query - Mutable	Google Interview Qs	

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)	
Hara	ideal fille : 40 00 fillis (Sasea off QS)	
Topics	Question	Remarks
	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
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	
Dacktracking	materi a rattern and string without osing negular 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	
Linked List	Pair with given sum	
Linked List	Select a random node from a singly linked list	
Linked List	First non 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	
	, 	
Greedy	Maximize array sum after k-negation operations	
Greedy	Program for shortest job first or sjf-cpu scheduling set 1 non-preempt	ive
Binary Trees	Check Mirror in N-ary tree	
Binary Trees	Maximum sum of nodes 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	
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	