	DSA by Shradha Didi & Aman Bhaiya		
	Meet us on Youtube (Apna College)		
Easy	Ideal Time : 5-10 mins		
Medium	Ideal Time : 15-20 mins	5 Questions each Day	
Hard	Ideal Time : 40-60 mins (based on Qs) 88 Qs	2 (442345112 24411 241,	
Topics Arrays	Question (375) Maximum and Minimum Element in an Array	Companies	Remarks
Arrays	Reverse the Array		
Arrays Arrays	Maximum-Subarray Contains Duplicate	Microsoft + Facebook Interview Qs	use Kadane's Algorithm
Arrays	Chocolate Distribution Problem	Amazon Interview Qs	
Arrays Arrays	Search an Element in a Sorted and Pivoted Array Next Permutation	Uber + Goldman Sachs + Adobe Interview Qs	
Arrays	Best time to Buy and Sell Stock	Cool + Columbia Coolio + Adobe Interview Q	
Arrays Arrays	Repeat and Missing Number Array Kth-Largest Element in an Array	Amazon Interview Qs	
Arrays	Trapping Rain Water	Samsung Interview Qs	
Arrays Arrays	Product of Array Except Self Maximum Product Subarray	Microsoft + Facebook Interview Qs	
Arrays	Find Minimum in Rotated Sorted Array		
Arrays Arrays	Search in Rotated Sorted Array 3Sum	Microsoft + Google + Apple Interview Qs	
Arrays	Container With Most Water	Flipkart + Dunzo Interview Qs	
Arrays Arrays	Given Sum Pair Kth - Smallest Element	Infosys + Amazon + Flipkart Interview Qs	
Arrays	Merge Overlapping Intervals	Google Interview Qs	
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	Barclays Interview Qs	
Arrays	Space Optimization Using Bit Manipulations	Darcidys interview QS	
Arrays	Subarray Sum Divisible K		
Arrays Arrays	Print all Possible Combinations of r Elements in a Given Array of Size n Mo's Algorithm		
Strings	Valid Palindrome		
Strings	Valid Anagram		
Strings Strings	Valid parentheses Remove Consecutive Characters	Google Interview Qs	use Stacks (if possible)
Strings	Longest Common Prefix	Adobe + Grofers + Dunzo Interview Qs	
Strings	Convert a Sentence into its Equivalent Mobile Numeric Keypad Sequence		
Strings Strings	Print all the Duplicates in the Input String Longest Substring without Repeating Characters	Ola + Amdocs IQ Morgan Stanley + Amazon IQ	
Strings	Longest Repeating Character Replacement	Morgan Stanley + Amazon IQ	
Strings	Group Anagrams	Samsung + Adobe + Amazon Interview Qs	
Strings	Longest Palindromic Substring	Microsoft + Google + Samsung + Visa IQ	
Strings Strings	Palindromic Substrings Next Permutation	Microsoft IQ	
Strings	Count Palindromic Subsequences		
	Count Faillidi Offic Subsequences	Myntra Interview Qs	
Strings	Smallest Window in a String Containing all the Characters of Another String	Microsoft + Amazon IQ	
Strings	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ	
	Smallest Window in a String Containing all the Characters of Another String	Microsoft + Amazon IQ	
Strings Strings Strings Strings	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ	
Strings Strings Strings Strings Strings	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ	
Strings Strings Strings Strings	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ	use Dynaming Programming
Strings Strings Strings Strings Strings Strings Strings	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ	use Dynaming Programming
Strings Strings Strings Strings Strings Strings Strings	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ	use Dynaming Programming
Strings Strings Strings Strings Strings Strings Strings Strings 2D Arrays 2D Arrays	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ	use Dynaming Programming
Strings Strings Strings Strings Strings Strings Strings Strings 2D Arrays 2D Arrays 2D Arrays	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes Spiral Matrix	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ	use Dynaming Programming
Strings Strings Strings Strings Strings Strings Strings Strings 2D Arrays 2D Arrays	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ	use Dynaming Programming
Strings Strings Strings Strings Strings Strings Strings Strings 2D Arrays	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes Spiral Matrix Rotate Image Word Search Find the Number of Islands Set 1 (Using DFS)	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ Flipkart + Apple + Societe Generale IQ	use Dynaming Programming Read about DFS
Strings Strings Strings Strings Strings Strings Strings Strings 2D Arrays	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes Spiral Matrix Rotate Image Word Search Find the Number of Islands Set 1 (Using DFS) Given a Matrix of 'O' and 'X', Replace 'O' with 'X' if Surrounded by 'X'	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ Flipkart + Apple + Societe Generale IQ Google + Ola + Goldman Sachs IQ	
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Strings Strings Strings Strings Strings Strings Strings Strings 2D Arrays	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes Spiral Matrix Rotate Image Word Search Eind the Number of Islands Set 1 (Using DES) 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 Create a Matrix with Alternating Rectangles of O and X Maximum Size Rectangle of all 1s Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K counting sort	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ Flipkart + Apple + Societe Generale IQ Google + Ola + Goldman Sachs IQ	
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Strings 2D Arrays Searching & Sorting	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes Spiral Matrix Rotate Image Word Search Find the Number of Islands Set 1 (Using DFS) 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 Create a Matrix with Alternating Rectangles of O and X Maximum Size Rectangle of all 1s Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K counting sort find common elements three sorted arrays Searching in an array where adjacent differ by at most k ceiling in a sorted array Piar with given difference majority element count triplets with sum smaller that a given value Maximum Sum Subsequence with no adjacent elements Merge Sorted Arrays using O(1) Space	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ Flipkart + Apple + Societe Generale IQ Google + Ola + Goldman Sachs IQ	
Strings Strings Strings Strings Strings Strings Strings Strings Strings 2D Arrays Searching & Sorting	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes Spiral Matrix Rotate Image Word Search Find the Number of Islands Set 1 (Using DFS) 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 Create a Matrix with Alternating Rectangles of O and X Maximum Size Rectangle of all 1s Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K counting sort find common elements three sorted arrays Searching in an array where adjacent differ by at most k ceiling in a sorted array Piar with given difference majority element count triplets with sum smaller that a given value Maximum Sum Subsequence with no adjacent elements Merge Sorted Arrays using O(1) Space Inversion of Array	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ Flipkart + Apple + Societe Generale IQ Google + Ola + Goldman Sachs IQ	
Strings 2D Arrays Searching & Sorting	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes Spiral Matrix Rotate Image Word Search Find the Number of Islands Set 1 (Using DFS) 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 Create a Matrix with Alternating Rectangles of O and X Maximum Size Rectangle of all 1s Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K counting sort find common elements three sorted arrays Searching in an array where adjacent differ by at most k ceiling in a sorted array Piar with given difference majority element count triplets with sum smaller that a given value Maximum Sum Subsequence with no adjacent elements Merge Sorted Arrays using O(1) Space	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ Flipkart + Apple + Societe Generale IQ Google + Ola + Goldman Sachs IQ	use Dynaming Programming Read about DFS
Strings Strings Strings Strings Strings Strings Strings Strings Strings 2D Arrays Searching & Sorting	Smallest Window in a String Containing all the Characters of Another String Wildcard String Matching Longest Prefix Suffix Rabin-Karp Algorithm for Pattern Searching Transform One String to Another using Minimum Number of Given Operation Minimum Window Substring Boyer Moore Algorithm for Pattern Searching Word Wrap Zigzag (or diagonal) Traversal of Matrix Set Matrix Zeroes Spiral Matrix Rotate Image Word Search Find the Number of Islands Set 1 (Using DFS) 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 Create a Matrix with Alternating Rectangles of O and X Maximum Size Rectangle of all 1s Permute Two Arrays such that Sum of Every Pair is Greater or Equal to K counting sort find common elements three sorted arrays Searching in an array where adjacent differ by at most k ceiling in a sorted array Piar with given difference majority element count triplets with sum smaller that a given value Maximum Sum Subsequence with no adjacent elements Merge Sorted Arrays using O(1) Space Inversion of Array Find Duplicates in O(n) Time and O(1) Extra Space.	Microsoft + Amazon IQ Microsoft + Amazon + Ola IQ Flipkart + Swiggy IQ Flipkart + Apple + Societe Generale IQ Google + Ola + Goldman Sachs IQ	

	Searching & Sorting	Check if Reversing a Sub Array Make the Array Sorted	
	Searching & Sorting	Find Four Elements that Sum to a Given Value	
	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	
5	Searching & Sorting	Aggressive Cows	
	Searching & Sorting	Allocate Minimum number of Pages	
5	Searching & Sorting	Minimum Swaps to Sort	
	Backtracking	Backtracking Set 2 Rat in a Maze	
	Backtracking	Combinational Sum	
	Backtracking	<u>Crossword-Puzzle</u>	
	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 Maximum Possible Number by deing at most K supps	
	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	
	Linked List		Important
		Sum of two linked lists	important
	Linked List	Sum of two linked lists Flattening a linked list	Important
	Linked List Linked List	Flattening a linked list	Important
	Linked List	Flattening a linked list Clone a linked list with next and random Pointer	Important
		Flattening a linked list	Important
	Linked List	Flattening a linked list Clone a linked list with next and random Pointer	Important
	Linked List	Flattening a linked list Clone a linked list with next and random Pointer	Important
	Linked List Linked List	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists	Important
	Linked List Linked List Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array	Important
	Linked List Linked List Stacks & Queues Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression	Important
	Linked List Linked List Stacks & Queues Stacks & Queues Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues	Important
	Linked List Linked List Stacks & Queues Stacks & Queues Stacks & Queues Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal	Important
	Linked List Linked List Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque	Important
	Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue	Important
	Linked List Linked List Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation	Important
	Linked List Linked List Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix	Important
	Linked List Linked List Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack	Important
	Linked List Linked List Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Find if an expression has duplicate parenthesis or not	Important
	Linked List Linked List Stacks & Queues	Flattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Find if an expression has duplicate parenthesis or not Stack permutations check if an array is stack permutation of other	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String 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	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String 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 Sort a stack using Recursion	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Eind 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges Next smaller element	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges Next smaller element Circular-tour	Important
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Eind 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges Next smaller element Circular-tour Efficiently implement k-stacks single array	Important
	Linked List Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Eind 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges Next smaller element Circular-tour Efficiently implement k-stacks single array The celebrity problem	
	Linked List Linked List Stacks & Queues	Elattening a linked list Clone a linked list with next and random Pointer Subtract two numbers represented as linked lists Implement two stacks in an Array Evaluation of Postfix Expression Implement Stack using Queues Queue Reversal Implement Stack Queue using Deque Reverse first k elements of queue Design Stack with Middle Operation Infix to Postfix Design and Implement Special stack Longest Valid String Eind 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 Sort a stack using Recursion Queue based approach for first non repeating character in a stream The Celebrity Problem Next larger Element Distance of nearest cell Rotten-oranges Next smaller element Circular-tour Efficiently implement k-stacks single array	Important

Stacks & Queues	lru cache implementation	
Stacks & Queues	Find a tour that visits all stations	
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 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	
Greedy	Find maximum equal sum of every three stacks	
Greedy	Job sequencing problem	
Greedy	Greedy algorithm egyptian fraction	
Greedy	Fractional knapsack problem	
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 Greedy	paper-cut minimum number squares 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 Binary Trees	Invert Binary Tree Binary Tree Level Order Traversal	
Binary Trees	Left View of Binary Tree	
Binary Trees	Right View of Binary Tree	
Binary Trees	ZigZag Tree Traversal	
Binary Trees	Create a mirror tree from the given binary tree	
Binary Trees	Leaf at same level	
Binary Trees	Check for Balanced Tree	
Binary Trees	Transform to Sum Tree	
Binary Trees Binary Trees	Check if Tree is Isomorphic Same Tree	
Binary Trees	Construct Binary Tree from Preorder and Inorder Traversal	
Binary Trees	Height of Binary Tree	
Binary Trees	Diameter of a Binary Tree	
Binary Trees	Top View of Binary Tree	
Binary Trees	Bottom View of Binary Tree	
Binary Trees	Diagonal Traversal of Binary Tree	
Binary Trees Binary Trees	Boundary Traversal of binary tree Construct Binary Tree from String with Brackets	
Binary Trees	Minimum swap required to convert binary tree to binary search tree	
Binary Trees	Duplicate subtree in Binary Tree	
Binary Trees	Check if a given graph is tree or not	
Binary Trees	Lowest Common Ancestor in a Binary Tree	
Binary Trees	Min distance between two given nodes of a Binary Tree	
Binary Trees	<u>Duplicate Subtrees</u>	
Binary Trees	Kth ancestor of a node in binary tree	
Binary Trees Binary Trees	Binary Tree Maximum Path Sum Serialize and Deserialize Binary Tree	
Binary Trees	Binary Tree to DLL	
Binary Trees	Print all k-sum paths in a binary tree	
Binary Search Trees	Lowest Common Ancestor of a Binary Search Tree	
Binary Search Trees	Binary Search Tree Set 1 (Search and Insertion)	
Binary Search Trees	Minimum element in BST	
Binary Search Trees	Predecessor and Successor	
Binary Search Trees	Check whether BST contains Dead End	
Binary Search Trees	Binary Tree to BST	
Binary Search Trees Binary Search Trees	Kth largest element in BST Validate Binary Search Tree	
Binary Search Trees	Kth Smallest Element in a BST	
Binary Search Trees	Delete Node in a BST	
Binary Search Trees	Elatten BST to sorted list	
Binary Search Trees	Preorder to Postorder	
Binary Search Trees	Count BST nodes that lie in a given range.	
Binary Search Trees	Populate Inorder Successor for all Nodes	
Binary Search Trees	Convert Normal BST to Balanced BST Morgo two BSTs	
Binary Search Trees Binary Search Trees	Merge two BSTs Given n appointments, find all conflicting appointments	
Binary Search Trees	Replace every element	
Binary Search Trees	Construct BST from given preorder traversal	
Binary Search Trees	Find median of BST in O(n) time and O(1) space	
Binary Search Trees	Largest BST in a Binary Tree	Important

Harris O Harbina		
Heaps & Hashing	Choose k array elements such that difference of maximum and minimum is minimized	
Heaps & Hashing	Heap Sort Sort Sort Sort Sort Sort Sort Sort	
Heaps & Hashing	Top K Frequent Elements	
Heaps & Hashing	k largest elements in an array	
Heaps & Hashing	Next Greater Element	
Heaps & Hashing	K'th Smallest/Largest Element in Unsorted Array	
Heaps & Hashing	Find the maximum repeating number in O(n) time and O(1) extra space	
Heaps & Hashing	K-th smallest element after removing some integers from natural numbers	
Heaps & Hashing	Find k closest elements to a given value	
Heaps & Hashing	K'th largest element in a stream	
Heaps & Hashing	Connect Ropes	
Heaps & Hashing	Cuckoo Hashing	
Heaps & Hashing	Itinerary from a List of Tickets	
Heaps & Hashing	Largest Subarray with 0 Sum	
Heaps & Hashing	Count distinct elements in every window of size k	
Heaps & Hashing	Group Shifted Strings	
Heaps & Hashing	Merge K Sorted lists	
Heaps & Hashing	Find Median from Data Stream	
Heaps & Hashing	Sliding Window Maximum	
Heaps & Hashing	Find the smallest positive number	
Heaps & Hashing	Find Surpasser Count of each element in array	
Heaps & Hashing	Tournament Tree and Binary Heap	
Heaps & Hashing	<u>Check for palindrome</u>	
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	BFS Control of the co	
Graphs	DFS	
Graphs	Flood Fill Algorithm	
Graphs	Number of Triangles	
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	
	Topological Sort	
Graphs		
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Graphs	Oliver and the Game	
Graphs	Minimum time taken by each job to be completed given by a Directed Acyclic Graph	
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Graphs	Minimum time taken by each job to be completed given by a Directed Acyclic Graph Find whether it is possible to finish all tasks or not from given dependencies Find the number of islands Prims Algo Negative Weighted Cycle Hoyd Warshall Graph Coloring Snakes and Ladders Kosaraju's Theorem Journey to moon Vertex Cover M. Coloring Problem Cheapest Elights Within K Stops Find if there is a path of more than k length from a source Reilman Ford Bipartitie Graph Word-Ladder Allen Dictionary Kruskals MST Total number spanning trees graph Travelling Salesman Find Jongest path directed acyclic graph. Word-Ladder Minimise the cash flow Chinese postman Water Jug Water Jug Water Jug Water Jug Water Jug Kruskals Problem 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 shonest unique prefix for every word in a given list Implement a Phone Directory Knapsack with Duplicate Items	
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DP	Longest Repeating Subsequence		
DP	Pairs with specific difference		
DP	Longest subsequence-1		
DP	Coin Change		
DP	LIS		
DP	Longest Common Subsequence		
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		
DP	Catalan Number		
DP			
	Edit Distance		
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		
	Maximum Path Sum		
DP			
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	Coin Game		
	Coin Game Winner		
DP			
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		
	<u> </u>		
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		
Bit Manipulation	Calculate square of a number without using *, / and pow()		
Bit Manipulation	Divide two integers without using multiplication, division and mod operator		
Bit Manipulation	Power Set		
Construct T	Decree Core Occare deservished		
Segment Trees	Range Sum Query - Immutable		
Segment Trees	Range Minimum Query	Google Interview Qs	
Segment Trees	Range Sum Query - Mutable		
Segment Trees	Create Sorted Array through Instructions		
Segment Trees	Count of Range Sum		
Segment Trees	Count of Smaller Numbers After Self		