Curious freaks CODING SHEET by Nandhini
Checkout this video to understand efficient way to use this sheet - https://youtu.be/AL.pPsZFokjQ
Youtube Channel - https://www.youtube.com/@curiousfreaks.
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Only sheet you need to get placed in super high paying companies including google, amazon, salesforce, microsoft, adobe, etc

| Solving time - Medium Problems - 15 to 3<br>Solving time - Hard problems - At max 45 |   |  |  |  |        |       |
|--|---|--|--|--|--------|-------|
|  | know a topic, so for every topic you have here, first understand the basics of the topi   | c, then for every pattern, you can learn the first prob in that pattern  | and then try solving other p   | robs in that pattern your  | self.  |       |
| TOPIC  | Problem   | Problem link   | Solution Tutorial  | Solution Article   | Solved | Notes |
| Basics<br>Beginners basic math probs   |   |  |  |  |        |       |
| Beginners basic matri probs  | Find even or odd  | https://practice.geeksforgeeks.org/problems/odd-or-even3618/1<br>https://www.geeksforgeeks.org/problems/find-last-digit-of-sh-for-large-   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Find last digit in a number  Count digits in a number(Solving above last digit prob wil make this easy for you)   | https://www.geessorgeess.org/problems/nnd-lass-digit-di-ab-for-large-<br>numbers/1938/1<br>https://practice.deeksforgeeks.org/problems/count-digits/5718/1   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view Article link-click to view  |        |       |
|  | Reverse a number(Try thinking how you can use above logic in solving this) Find power of a number   | https://www.geeksforgeeks.org/problems/reverse-digit0316/1<br>https://www.geeksforgeeks.org/problems/power-of-numbers-1587115620/1   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | GCD   | https://practice.geeksforgeeks.org/problems/gcd-of-two-numbers3459/1<br>https://www.codingninias.com/studio/problems/print-all-divisors-of-s-  | Best Tutorial link - click to view   |  |        |       |
|  | Print all divisors of a number Prime number(Try solving by yourself)  | https://practice.geeksforgeeks.org/problems/prime-number/2314/1  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |        |       |
|  | Armstrong number(Solving power of number, will make this easy for you)  Check palindrome of number(Use the techniques you learnt so far solving above probs and solve   | https://www.geeksforgeeks.org/problems/armstrong-numbers2727/1   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | this by yourself)  Square root of a number(Try to first figure out algo to solve this)  | https://practice.geeksforgeeks.org/problems/palindrome0748/1<br>https://www.geeksforgeeks.org/problems/square-root/1   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Perfect number This is a huge topic and array acts as base data structure for many concepts, so lets master the basics in this section. For all the data structure moving forward, make sure to visually  | https://practice.geeksforgeeks.org/problems/perfect-numbers3207/1  | Best Tutorial link - click to view   | Article link-click to view   |        |       |
| Array - Data structure  Basics with traversal  | note down and understand how it is represented  |  |  |  |        |       |
|  | What is an array? How is it represented?<br>Find the maximum and minimum element in array(After solving the search, you can solve all probs   | https://www.geeksforgeeks.org/problems/find-minimum-and-maximum-   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | in this basics by yourself) Find third largest element in array   | element-in-an-array4428/1<br>https://practice.geeksforgeeks.org/problems/third-largest-element/1   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |        |       |
|  | Search an element in array(Understand how to traverse through the array and how to access the elements)   | https://www.geeksforgeeks.org/problems/search-an-element-in-an-array-<br>1587115621/1  | Best Tutorial link - click to view   |  |        |       |
|  | Find missing number in array Find repeating number in array   | https://practice.geeksforgeeks.org/problems/missing-number-in-array1418/1  | Best Tutorial link - click to view  Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Sort an array of 0s , 1s and 2s (You don't need to know any sorting algo, just using basics, once   | https://www.geeksforgeeks.org/problems/sort-an-array-of-0s-1s-and-<br>2s4231/17<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   |  |  |        |       |
|  | solved, definitely learn the optimal algo)  | cky_on_Article<br>https://www.geeksforgeeks.org/problems/check-if-two-arrays-are-equal-or-<br>noi384717.   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Check if two arrays are equal or not  | itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>cky_on_Article   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  |   | https://www.geeksforgeeks.org/problems/cyclically-rotate-an-array-by-<br>one2614/12  |  |  |        |       |
|  | Rotate the array by 1 Rotate the array by k   | ilm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti<br>cky on Article<br>https://www.codingninjas.com/studio/problems/rotate-array_1230543   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |        |       |
|  | Array subset of another array   | https://www.geeksforgeeks.org/problems/array-subset-of-another-<br>array/2317/1  | Best Tutorial link - click to view   |  |        |       |
|  | Learn what is map and how its represented before moving forward   | https://gractice.geeksforgeeks.org/problems/frequency-of-array-elements-   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
| Two pointer(This is very imp pattern,  | Count frequency of elements in array(Solve efficiently, try applying what you learnt about map)   | 1587115620/1   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
| not just for these probs but very<br>commonly you can use this technique)            | Just like search, sort, this is also imp technique to learn   | https://www.geeksforgeeks.org/problems/key-pair5616/12   |  |  |        |       |
|  | Find pair with given sum  | itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti_<br>cky_on_Article   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  |   | https://www.geeksforgeeks.org/problems/triplet-sum-in-array-<br>1587115621/12<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   |  |  |        |       |
|  | 3 Sum<br>4 Sum  | cky_on_Article<br>https://leetcode.com/problems/4sum/  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Find triplets with zero sum Find count of triplets  | https://www.geeksforgeeks.org/problems/find-triplets-with-zero-sum/1_<br>Count the triplets   Practice   GeeksforGeeks   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |        |       |
|  | Union of two arrays(Learn the brute force & optimal soln, you will learn about set datastructure, which will be super useful in many probs in brute force)  | https://www.geeksforgeeks.org/problems/union-of-two-arrays3538/1   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Intersection of two arrays  | https://www.geeksforgeeks.org/problems/intersection-of-two-arrays2404/12<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>cky_on_Article   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Remove duplicates from array(Quite diff from above, try to solve on own, this actually shows that   | https://www.geeksforgeeks.org/problems/remove-duplicate-elements-from-<br>sorted-array/12<br>itm source-geeksforgeeks&itm medium=Article&itm campaign=bottom sti   |  |  |        |       |
|  | not always you will have pointers at start and end)   | cky on Article https://www.geeksforgeeks.org/problemsik-th-element-of-two-sorted-  | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | kth element of 2 sorted arrays  | array1317/12<br>ilm source=geeksforgeeks&ilm medium=Article&ilm campaign=bottom sti<br>cky on Article  | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | ter claims of 2 souch arrays  | https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-k0809/12   | DESCRIPTION OF THE PROPERTY OF | PARTICIPATION OF THE PARTICIPA |        |       |
|  | Length of longest subarray with sum k   | itm_source=geeksforgeeks&itm_medium=article&itm_campaign=bottom_sti-<br>cky_on_article<br>https://www.geeksforgeeks.org/problems/trapping-rain-water-  | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  |   | 1587115621/1?<br>itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti   |  |  |        |       |
| Must Solve   | Trapping rain water   | cky on Article   | Best Tutorial link - click to view   |  |        |       |
|  | Majority element  Kadane's algo(super imp)  | https://leetcode.com/problems/majority-element/<br>https://practice.geeksforgeeks.org/problems/kadanes-algorithm-<br>1587/115620/1   | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |        |       |
|  | Count inversions  | https://practice.geeksforgeeks.org/problems/inversion-of-array-<br>1587/115620/1   | Best Tutorial link - click to view   |  |        |       |
|  | Merge intervals   | https://leetcode.com/problems/merge-intervals/<br>https://practice.geeksforgeeks.org/problems/maximum-product-   | Best Tutorial link - click to view   |  |        |       |
|  | Maximum product subarray Next permutation   | subarray3604/1<br>https://leetcode.com/problems/next-permutation/  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view   |        |       |
| Time and space complexity  | Seive of eranthoses(Popular algo for prime numbers) <a href="https://youtu.be/FPu9Uld7W-E?si=s_d8cjdb8UtiVg18">https://youtu.be/FPu9Uld7W-E?si=s_d8cjdb8UtiVg18</a> - After learning this, make sure to learn time.   | https://www.geeksforgeeks.org/problems/sieve-of-eratos/henes5242/1<br>te and space complexity for all the problems moving forward  | Best Tutorial link - click to view   | Article link-click to view   |        |       |
| Matrix - Data structure  | Once you learn this, in many advanced topics like graphs, DP, backtracking, this is super imp. This section is to learn 2D array and to get grip on basics  |  |  |  |        |       |
| Traversal & Basic & Must solve   | What is a 2D Array? How to access element?  | NEW CONTRACTOR CONTRAC | Best Tutorial link - click to view   |  |        |       |
|  | Search in a matrix Rotate by 90 degree  | https://leetcode.com/problems/search-a-2d-matrix/ https://www.geeksforgeeks.org/problems/rotate-by-90-degree-1587115621/1  | Best Tutorial link - click to view Best Tutorial link - click to view  | Article link-click to view   |        |       |
|  |   | https://www.geeksforgeeks.org/problems/row-with-minimum-number-of-<br>1s5430/12<br>itm_source-geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   |  |  |        |       |
|  | Maximum num of 1's row Left rotate matrix k times   | <u>cky_on_Article</u> <u>https://practice.geeksforgeeks.org/problems/left-rotate-matrix-k-times2351/1</u>  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view Article link-click to view  |        |       |
|  | Print matrix in diagonal pattern  | https://www.geeksforgeeks.org/problems/print-matrix-in-diagonal-pattern/12<br>itm_source-geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>cky_on_Article   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
| Recursion - Technique  | Set matrix zeros  Recursion is super important concept!! Lets first understand the basics of recursion in this section  | https://leetcode.com/problems/set-matrix-zeroes/   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
| Recursion - Technique  | before moving forward  Understand what recursion is and how it works(Draw the recursive tree for every recursive prob   |  | Best Tutorial link - click to view   | Article link clink to view   |        |       |
| oud(c)   | you solve) Print 1 to N using recursion   | https://www.geeksforgeeks.org/problems/print-1-to-n-without-using-loops-<br>158711562011   | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |        |       |
|  | Factorial of N numbers  | https://practice.geeksforgeeks.org/problems/factorisl5739/1 https://www.geeksforgeeks.org/problems/nih-filonacci-number1335/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   | Best Tutorial link - click to view   |  |        |       |
|  | Fibonacci series using recursion  | cky on Article   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Power(x,n) Draw the recursion tree for all the probs for sure   | https://www.geeksforgeeks.org/problems/power-of-numbers-1587115620/12<br>ilm_source=geeksforgeeks&ilm_medium=Article&ilm_campaign=bottom_sti-<br>cky_on_Article  | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Print pattern   | https://www.geeksforgeeks.org/problems/print-pattern3549/12<br>page=1&category=Recursion&difficulty=Easy&sortBy=submissions  | Best Tutorial link - click to view   |  |        |       |
|  | Recursive implementation of atoi  | https://practice.geeksforgeeks.org/problems/implement-atoi/12<br>utm_source=geeksforgeeks&utm_medium=ml_Article_practice_tab&utm_ca<br>mpaign=Article_practice_tab   | Best Tutorial link - click to view   | Article link -click to view  |        |       |
|  | Pascal triangle   | https://www.geeksforgeeks.org/problems/pascal-triangle0852/12<br>page=1&category=Recursion&difficulty=Easy&sortBy=submissions  | Best Tutorial link - click to view   |  |        |       |
| Binary Search - Algo   | https://leefcode.com/discuss/general-discussion/691825/Binary-Search-for-Beginners-Problems-or-<br>Patterns-or-Sample-solutions   |  |  |  |        |       |
| Besic pattern  | Search in a sorted array(Efficiently -> So learn binary search for this)  | https://www.geeksforgeeks.org/problems/who-will-win-1587115821/12<br>page=1&categon=Binary%20Search&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Search in a sorted array(Efficiently -> So learn binary search for this)  Find floor and ceil in sorted array   | page=18category#Binary%20Search&sorByesubmissions<br>https://www.geeksforgeeks.org/problems/floor-in-a-sorted-array-<br>1587115620/1   | Best Tutorial link - click to view   |  |        |       |
|  | Find first and last occurence of element in sorted array  | https://www.geeksforgeeks.org/problems/first-and-last-occurrences-of-<br>x3116/1?page=1&category=Binary%20Search&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Find missing num from 1 to N  | https://leetcode.com/problems/missing-number/<br>https://www.geeksforgeeks.org/problems/square-root/1?   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
|  | Find square root  | itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>cky_on_Article<br>https://www.codingninjas.com/studio/oroblems/search-in-infinite-sorted-0-1-  | Best Tutorial link - click to view   |  |        |       |
|  | Search for element in infinite array  | array 696193   | Best Tutorial link - click to view   | Article link-click to view   |        |       |
| Sorted rotated array   |   |  |  | August and other particular controls   |        |       |
| Sorted rotated array   | Search element in sorted rotated array(With and without duplicate)  Minimum element in sorted rotated array(With and without duplicate) A twist in normal BS is needed, once you learnt this, solve the below by yourself even try to solve this also by yourself | https://leetcode.com/problems/search-in-rotated-sorted-array-ii/<br>https://www.geeksforgeeks.org/problems/minimum-number-in-a-sorted-<br>rotated-array-1587115620/17oage=1&category=Binary%   | Best Tutorial link - click to view   | Afficie link dick to view  |        |       |

|  | Number of times array is sorted  | https://www.geeksforgeeks.org/problems/rotation4723/12<br>itm.source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti<br>cky_on_Article  | Best Tutorial link - click to view   | Article link click to view   |  |
|--|--|--|--|--|--|
|  | Maximum element in sorted rotated array  |  | Best Tutorial link - click to view   |  |  |
| Biotonic array   |  | https://www.geeksforgeeks.org/problems/peak-element/12<br>page=1&category=Arrays&difficulty=Medium&status=solved&sortBy=submis   |  |  |  |
|  | Find the peak element  | sions  | Best Tutorial link - click to view   |  |  |
| Matrix   | Search element in biotonic array   | https://www.interviewbit.com/problems/search-in-bitonic-array/   | Best Tutorial link - click to view   | Article link click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/binary-matrix-having-maximum-<br>number-of-1s170847/17page=2&category=Binary%   |  |  |  |
|  | Find row with maximum number of 1's  | 20Search&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/search-in-a-matrix-1587115821/17   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Search in row wise column wise sorted matrix   | https://www.geesstorgeeks.org/problems/search-in-a-marrix-106/1106/11/1/<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>cky_on_Article   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Search in sorted matrix II   | https://leetcode.com/problems/search-a-2d-matrix-ii/   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Application(Super imp)   | Find peak in sorted matrix   | https://leetcode.com/problems/find-a-peak-element-ii/  | Best Tutorial link - click to view   | Article link-click to view Article link-click to view  |  |
|  | Aggressive cows  | https://www.geeksforgeeks.org/problems/aggressive-cows/12<br>page=1&category=Binary%20Search&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/allocate-minimum-number-of-<br>pages/9937/17  |  |  |  |
|  | Allocate minimum pages   | itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti<br>cky_on_Article  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Painter partition  | https://www.geeksforgeeks.org/problems/the-painters-partition-<br>problem1535/1?page=1&category=Binary%20Search&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Split array largest sum  | https://www.geeksforgeeks.org/problems/split-array-largest-sum141634/12<br>page=2&category=Binary%20Search&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Minimum num of days to make m bouquets   | https://leetcode.com/problems/minimum-number-of-days-to-make-m-<br>bouquets/   | Best Tutorial link - click to view   |  |  |
|  | Capacity to ship packages within D days  | https://www.geeksforgeeks.org/problems/capacity-to-ship-packages-within-<br>d-days/1?page=2&category=Binary%20Search&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | koko eating bananas<br>kth smallest number in matrix multiolication table  | https://leetcode.com/problems/koko-eating-bananas/   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | kth smallest number in matrix multiplication table   | https://leetcode.com/problems/kth-smallest-number-in-multiplication-table/<br>https://leetcode.com/problems/find-k-th-smallest-pair-distance/  | Best Tutorial link - click to view Best Tutorial link - click to view  | Article link-click to view Article link-click to view  |  |
|  | Ugly number II Median of 2 sorted arrays   | https://leetcode.com/problems/ugly-number-ii/<br>Median of 2 Sorted Arrays of Different Sizes   Practice   GeeksforGeeks   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |  |
|  | Find smallest divisor given threshold  | Find the Smallest Divisor Given a Threshold - LeetCode   |  | Article link-click to view   |  |
| Sorting - Algo   | Make sure to completely understand the algo thoroughly, and time & space complexity  | https://www.geeksforgeeks.org/problems/bubble-sort/1?  |  |  |  |
| Basics   | Bubble sort(very basic sorting technique)  | itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>cky_on_Article   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/selection-sort/1?<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti  |  |  |  |
|  | Selection sort   | cky on Article https://www.geeksforgeeks.org/problems/insertion-sort/1?  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Insertion sort   | itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti<br>cky_on_Article  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/merge-sort/1?<br>itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti  |  |  |  |
|  | Merge sort   | cky_on_Article<br>https://www.geeksforgeeks.org/problems/quick-sort/12   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Quick sort   | itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>cky_on_Article   | Best Tutorial link - click to view   | Article link-click to view   |  |
| LinkedList - Data structure  | Completely understand how Node in linked ist is represented and then no ahead with the natterns  |  | Best Tutorial link - click to view   | Addista that what to   |  |
|  | Create, Insert, Delete Operations in LL  |  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Search for an element in LL(Once create, insert is done, this should be easy)  | https://www.geeksforgeeks.org/problems/search-in-linked-list-1684434326/1<br>https://www.geeksforgeeks.org/problems/reverse-a-linked-list/12   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Reverse a LL(Learn the O space approach, learn recursive & iterative soln)   | https://www.geeksforgeeks.org/problems/check-if-linked-list-is-<br>bilips://www.geeksforgeeks.org/problems/check-if-linked-list-is-  | Best Tutorial link - click to view   |  |  |
|  | Check if LL is a Palindrome(Once reversing is learnt, this should be easy)   | https://www.geesstorgeess.org/problems/cneck-th-inked-list-ts-<br>pallindrome/1?page=1&category=Linked%20List&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/insert-in-middle-of-linked-list/1?  | Best Tutorial link - click to view   | Article link - click to view   |  |
|  | Middle element of LL (Learn efficient approach)  | https://www.geeksforgeeks.org/problems/insert-in-middle-ol-linked-list/17/<br>page=2&categon=Linked%20Lis&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/intersection-point-in-y-shapped-  | Best Tutorial link - click to view   | Article link - click to view   |  |
|  | Find the intersection point of Y LL(Once you know traversal, apply node logic to solve this)   | linked-lists/1?page=1&category=Linked%20List&sortBy=submissions  | Best Tutorial link - click to view   | Article link - click to view   |  |
|  | Union and Intersection of LL   | https://www.geeksforgeeks.org/problems/union-of-two-linked-list/12<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti<br>cky_on_Article  | Rest Tutorial link - elink to visco  | Article link - click to view   |  |
|  | Union and Intersection of LL Delete without head pointer   | cky on Article https://www.geeksforgeeks.org/problems/delete-without-head-pointer/12   | Best Tutorial link - click to view   |  |  |
|  |  | page=1&category=Linked%20List&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/count-pairs-whose-sum-is-equal-   | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
|  | Count pairs with given sum  Reverse LL in groups of given size(Once you learn reverse of LL's efficient approach, you can try  | to:x/17page=2&category=Linked%20List&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of-<br>given-size/17page=1&category=Linked%20List&sortBy=submissions   |  |  |  |
| Loop   | this)  | given-size/1?page=1&category=Linked%20List&sortBy=submissions  | Best Tutorial link - click to view   | Article link - click to view   |  |
|  | Detect loop in LL(Once this is learnt, all the loop pattern probs below should be easy)  | https://www.geeksforgeeks.org/problems/detect-loop-in-linked-list/1?<br>page=1&category=Linked%20List&sortBy=submissions   | Best Tutorial link - click to view   | Article link - click to view   |  |
|  | Find length of loop in LL  | https://www.geeksforgeeks.org/problems/find-length-of-loop/12<br>page=1&category=Linked%20List&difficulty=Easy&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | Find the starting point of loop  | https://www.geeksforgeeks.org/problems/find-the-first-node-of-loop-in-<br>linked-list-170845/1   | Best Tutorial link - click to view   |  |  |
|  | Remove the loop  | https://www.geeksforgeeks.org/problems/remove-loop-in-linked-list/12<br>page=18-category=Linked%20List&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
| Sorting, Merging & Related   |  |  | Best Tutorial link - Click to view   | Affice link - click to view  |  |
|  | Sort 0s, 1s, 2s in LL  | https://www.geeksforgeeks.org/problems/given-a-linked-list-of-0s-1s-and-2s-<br>sort-it/1?page=1&category=Linked%20List&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/pairwise-swap-elements-of-a-<br>linked-list-by-swapping-data/1?page=2&category=Linked%  |  |  |  |
|  | Pairwise swap elements  Merge k sorted LL(Merge two sorted is easy version of this ques, if you are finding it diff to come up   |  | Best Tutorial link - click to view   |  |  |
|  | with logic, first solve that)  | page=1&category=Linked%20List&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/sort-a-linked-list/12   | Best Tutorial link - click to view   |  |  |
|  | Merge sort in LL   | page=2&category=Linked%20List&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/guick-sort-on-linked-list/1?  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Quick sort in LL   | itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti<br>cky on Article  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/remove-duplicate-element-from-  |  |  |  |
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|  | Remove occurence of duplicates in sorted & unsorted LL   | sorted.linked.isi/17eage=1&categorv=Linked%<br>20List&dfficulty=Easy&sortBy=submissions https://www.geeksforgeeks.<br>org/problems/remove-duplicates-from-an-unsorted-linked-isi/12<br>page=1&category=Linked%20List&difficulty=Easy&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
| Arithmetic/Reversal & traversal - Once   | Remove occurence of duplicates in sorted & unsorted LL. Seggregate even and odd nodes in LL.   |  | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
|  |  | sorted-linked-list112sage=1&categoru=Linked!% 2(U.st&difficuty=Easy&sort@submissions blos://www.geeksforgeeks, org/problems/remove-duplicates-from-an-unsorted-linked-list112 page=1&category=Linked%2(U.st&difficutly=Easy&sortBy=submissions blos://oractice-geeksforgeeks-org/problems/segregate-even-and-odd-  |  |  |  |
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| Arithmetic/Deversal & traversal - Once you learn these, you can solve probs in this pattern)  Must solve other probs(Try to solve these probs on own, brute force affect your can some up for most of them after earlier and the problem of them after earlier and the problem of the problem of them after earlier and the problem of the probl | Seggregatie even and odd nodes in LL  Add 1 to a number represented as LL  Add 2 numbers represented as LL  Add 2 numbers represented as LL  Subtraction on LL(Comes under hard but should be solvable once the above ones are solved)  Rotate LL  Filterining a LL(make sure to learn the efficient approach)  Delete nodes having greater value on right  Delete N nodes and set M nodes  Delete all occurrence of node  Clone a LL  Learn the basic orgeneration of the nodes in LL  Insert. Delete. Reverse DLL  Pairs with given sum in DLL  What is stack? Learn how to represent the dafa structure and working of it implement 2 stack using array  Check for solationed paramittesis  Get min from stack in O(1) space and time  Next greater element  Next greater element II  Next smallest element on left  Next smallest element on left  Next smallest element on right  | sorted sine of services is desired on the control of the control o   | Best Tutorial link - click to view  Best Tutorial link - click to view | Acticle link-click to view  |  |
| Arithmetic/Deversal & traversal - Once you learn these, you can solve probs in this pattern)  Must solve other probs(Try to solve these probs on own, brute force affect your can some up for most of them after earlier and the problem of them after earlier and the problem of the problem of them after earlier and the problem of the probl | Seggregate even and odd nodes in LL  Add 1 to a number represented as LL  Add 2 numbers represented as LL  Subtraction on LL(Comes under hard but should be solvable once the above ones are solved)  Rotate LL  Faltering a LL(make sure to learn the efficient approach)  Delete and coverse of node  Clone a LL  Length of tongest paindowne in LL  Learn the basic direction LL  Learn the basic ordinate LL  Learn the basic ordi | sorted sine of services in Statement Land Control of the Control o   | Best Tutorial link - click to view   | Acticle link-click to view  |  |
| Arthmetic(Reversal & traversal - Once you learn these, you can solve probe in this pattern)  Must solve other probet (Try to solve these probe on own, brute force atleast you can come up for most of them after celling above)  Double Linked List  Stack - Data structure Basic  Next greater element  Next greater element  Next smallest element(Once above pattern is covered, try to solve this on own)   | Seggregatie even and odd nodes in LL  Add 1 to a number represented as LL  Add 2 numbers represented as LL  Subtraction on LL(Comes under hard but should be solvable once the above ones are solved)  Rotate LL  Flattering a LL(make sure to learn the efficient approach)  Delete nodes having greater value on right  Delete N rodes at the N rodes  Delete all occurrence of rode  Clone a LL  Learn the basic or greater solven in LL  Learn the basic or greater solven in LL  Insert. Delete. Reverse DLL  Pairs with given sum in DLL  What is stack? Learn how to represent the data structure and working of it implement 2 stack using array  Check for solvanced paramittesis  Get min from stack in O(1) space and time  Next greater element  Next greater element II  Next smallest element on left  Next smallest element on left  Next smallest element on left  Next smallest element on right  | socied since del self Progres Edentingon - Linkerith.  socied since del self Progres Edentingon - Linkerith.  socied since del self progres Edentingon - Linkerith.  socied since del self self self self self self self se  | Best Tutorial link - click to view  Best Tutorial link - click to view | Acticle link-click to view   |  |

|  | Maximum rectangular area on histogram(Once next greater and next smallest pattern is covered, this can be solved easily)   | https://www.geeksforgeeks.org/problems/maximum-rectangular-area-in-a-<br>histogram-1587115620/17page=1&category=Stack&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|--|--|--|--|--|--|
|  | Max rectangle(Same as above, just a small twist)   | https://www.geeks.org/problems/max-rectangle/12<br>page=18category=Stack8sortBy=submissions  | Best Tutorial link - click to view   |  |  |
| Expressions  | groupes as secre, per d SHRI (WISI)  |  | Land Toronda Blik - Click to view  | THE PARTY OF THE P   |  |
|  | Infix to postfix   | https://www.geeksforgeeks.org/problems/infix-to-postfix-1587115820/17<br>page=2&category=Stack&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Evaluation of postfix expression   | https://www.geeksforgeeks.org/problems/evaluation-of-postfix-<br>expression1735/1?page=2&category=Stack&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Prefix to postfix  | https://practice.geeksforgeeks.org/problems/infix-to-postfix-1587115820/1<br>https://www.codingninias.com/studio/problems/arithmetic-expression-   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Burney and a   | Arithmetic expression evaluation   | https://www.codingninjas.com/studio/problems/arithmetic-expression-<br>evaluation_1170517  | Best Tutorial link - click to view   | Article link-click to view   |  |
| Reversing stack  |  | https://www.geeksforgeeks.org/problems/insert-an-element-at-the-bottom-of-<br>a-stack/1?page=4&category=Stack&sortBy=submissions   |  |  |  |
|  | Insert at bottom of stack  | a-stack/17page=4&category=Stack&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/reverse-a-stack/17  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Reverse a stack  | page=2&category=Stack&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/sort-a-stack/12   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Implementation probs   | Sort stack(Solving above two can give you hint for this)   | page=1&category=Stack&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Implementation probs   |  | https://www.geeksforgeeks.org/problems/the-celebrity-problem/12  |  |  |  |
|  | Celebrity problem  | page=1&category=Stack&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/restrictive-candy-crush141631/12<br>page=2&category=Stack&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | Restrictive candy crush  | page=2&category=Stack&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/count-the-reversals0401/12  |  |  |  |
| Queue - Data structure   | Count the reversals  | page=1&category=Queue&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Basic pattern  |  |  |  |  |  |
|  | What is queue? Learn the basic representation and how its implemented?   | https://www.geeksforgeeks.org/problems/implement-queue-using-array/12<br>page=18category=Queue&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Implement queue using linkedlist   | https://www.geeksforgeeks.org/problems/implement-queue-using-linked-<br>list/1?page=1&category=Queue&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Implement queue using stack(super imp)   | https://www.geeksforgeeks.org/problems/queue-using-two-stacks/1?<br>page=1&category=Queue&sortBy=submissions   | Best Tutorial link - click to view   |  |  |
|  | Implement stack using queue(super imp)   | https://www.geeksforgeeks.org/problems/stack-using-two-queues/12<br>page=1&category=Queue&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Reverse a queue  | https://www.geeksforgeeks.org/problems/queue-reversal/1?<br>page=18.category=Queue&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
| Implementation probs   | Torons a quees   |  | DESCRICTION OF THE PROPERTY OF | CONTRACTOR OF VALUE  |  |
|  | Circular tour  | https://www.geeksforgeeks.org/problems/circular-tour-1587115620/12<br>page=1&category=Queue&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | First non repeating char in stream   | https://www.geeksforgeeks.org/problems/first-non-repeating-character-in-a-<br>stream1216/17page=1&category=Queue&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | Reverse first k elements in queue  | https://www.geeksforgeeks.org/problems/reverse-first-k-elements-of-<br>queue/17page=1&category=Queue&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | LRU Cache(super imp)   | https://www.geeksforgeeks.org/problems/flu-cache/12<br>page=18category=Queue&sortBy=subm/rssions   | Best Tutorial link - click to view   |  |  |
|  | Minimum cost of roces  | https://www.geeksforgeeks.org/problems/minimum-cost-of-rones-  | Best Tutorial link - click to view   |  |  |
|  | Minimum cost of ropes  Nearly sorted(Learn priority queue for sure)  | 1587115620/17page=1&category=Queue&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/nearly-sorted-1587115620/17  |  |  |  |
| Sliding Window - Technique   | The state of the s | https://leatrode.com/problems/find-all-anarrame.in-a-  | Best Tutorial link - click to view   | Aude link-click to view  |  |
| (Dont skip this topic, I personally have been asked this topic in many interviews                              | GeekForGeeks has very limited probs in this topics, so use leetcode for this even if you practice on gfg generally   | naps://eccode.com/problems/ind-ai-aragrams-in-a-<br>string/solutions/92007/sliding-window-algorithm-template-to-solve-all-the-<br>leetcode-substring-search-problem/   |  |  |  |
| Fixed Sliding Window(Size of the<br>window will be provided)   |  |  |  |  |  |
|  |  | https://www.geeksforgeeks.org/problems/max-sum-subarray-of-size-<br>k5313/12   |  |  |  |
|  | Maximum sum subarray of size k   | k8313/12<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>ckv_on_Article   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Assumum sum subarray of size k  Count distinct element in every window(Once you understoor handling window size fixed from above grob, this will be easy)  | https://www.geeksforgeeks.org/problems/count-distinct-elements-in-every-   | Best Tutorial link - click to view   |  |  |
|  | ,  | window/17page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/first-negative-integer-in-every-   | Sout Tutonal In K - Click to view  | PASSE IN IN-CIRCLE TO VIEW   |  |
|  | First negative integer in every window of size k(Try to solve on own before looking for soln since you did above topics too already  | window-of-size-k3345/12 page=18category=sliding-<br>window8sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Maximum of all subarray of size k(Try to solve on own)   | https://www.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size-<br>k3101/17page=1&category=sliding-window&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Count substring of length k with k-1 distinct elements   | https://www.geeksforgeeks.org/problems/substrings-of-length-k-with-k-1-<br>distinct-elements/12page=1&category=sliding-window&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Maximum of minimum for every window(Imp)   | https://www.geeksforgeeks.org/problems/maximum-of-minimum-for-every-<br>window-size3453/1?page=1&category=sliding-window&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
| Variable sliding window(Each prob will<br>teach something in addition to the window so do<br>solve everything) |  |  |  |  |  |
| solve everything)  |  | https://www.geeksforgeeks.org/problems/subarray-with-given-sum-  |  |  |  |
|  | Subarray with given sum  | 1587115621/17page=1&category=sliding-window&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-   | Best Tutorial link - click to view   |  |  |
|  | Longest subarray with given sum k(Same as above with slight modification)  | k080917page=1&category=sliding-window&cortBy=submissions<br>https://www.geeksforgeeks.org/problems/subarray-with-0-sum-  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Subarray with 0 sum  | https://www.geekstorgeeks.org/problems/subarray-with-U-sum-<br>1587115621/17page=18category=siliding-window8sortBy=submissions<br>https://www.geeksforgeeks.org/problems/smallest-distant-window3132/12  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Smallest window of distinct elements   | page=1&category=sliding-window&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Smallest window containing 0,1,2   | https://www.geeksforgeeks.org/problems/smallest-window-containing-0-1-<br>and-2170837/1?page=2&category=sliding-window&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/smallest-window-in-a-string-<br>containing-all-the-characters-of-another-string-1587115821/12   |  |  |  |
|  | Smallest window in string containing all chars of another string   | page=1&category=sliding-window&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/length-of-the-longest-   | Best Tutorial link - click to view   |  |  |
|  | Length of longest substring  | substring3036/1?psge=1&category=sliding-window&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/largest-subarray-of-0s-and-1s/12   | Best Tutorial link - click to view   |  |  |
|  | Largest subarray of 0s and 1s  | page=1&category=sliding-window&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/count-occurences-of-   | Best Tutorial link - click to view   |  |  |
|  | Count of anagram occurence(Super imp)  Max consecutive ones III  | anagrams5839/1?page=1&category=sliding-window&sortBy=submissions<br>https://eetcode.com/problems/max-consecutive-ones-iii/   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |  |
|  | Fruit into basket  | https://leetcode.com/problems/fruit-into-baskets   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Count number of nice subarrays  Longest repeating char replacement   | https://leetcode.com/problems/count-number-of-nice-subarrays/<br>https://leetcode.com/problems/longest-repeating-character-replacement   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Minimum window substring   | https://leetcode.com/problems/minimum-window-substring/description/  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Minimum window subsequence(Understand the diff between subarray and subsequence before starting this prob)   | https://leetcode.com/problems/minimum-window-subsequence/  | Best Tutorial link - click to view   |  |  |
| Trees - Data structure   | Subarray with k diff integers  |  |  | Article link-click to view   |  |
|  |  | https://leetcode.com/problems/subarrays-with-k-different-integers/   | Best Tutorial link - click to view   | Article link-click to view<br>Article link-click to view   |  |
| Trees - Data structure Traversals  | Understand the basic of how tree data structure is represented   |  | Best Tutorial link - click to view  Best Tutorial link - click to view   | Article link-click to view Article link-click to view  |  |
|  | Understand the basic of how tree data structure is represented PreOrder Traversal  | hitps://www.geeksforgeeks.org/problems/preorder-traversal/12<br>gage=18-categon=Tree8sortBy-submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
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|  | PreOrder Traversal   | billos//www.aceksforaceks.org/problems/preorder-traversal/12<br>pages 18.csteppow/mrce6sort6/wsubmissions/<br>billos//www.aceksforaceks.org/poblems/foracek-traversal/12   | Best Tutorial link - click to view  Best Tutorial link - click to view  Best Tutorial link - click to view   | Article link-click to view  Article link-click to view  Article link-click to view   |  |
|  | PreOrder Traversal<br>InOrder Traversal  | https://www.nesksforonesks.org/problems/presorder-fraversal/12<br>eages-15-findings-y-freeds-corifo-y-schreissons<br>https://www.nesksforonesks.org/problems-froeds-traversal/12<br>pages-25-findings-17-finesks.org/problems-froeds-traversal/12<br>pages-25-findings-17-finesks.org/problems-froeds-traversal/12<br>https://www.nesksforonesks.org/problems-froed-de-fraversal/12<br>https://www.nesksforonesks.org/problems-froed-de-fraversal/12   | Best Tutorial link - click to view   | Article link-click to view  Article link-click to view  Article link-click to view  Article link-click to view   |  |
|  | PreOrder Traversal InOrder Traversal PosiOrder Traversal Level Order Traversal   | that allows acetal forgets a supportions proceder (aversal 17) agent Leadings 21 (leading 18) and the support of the support o                                     | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | PreOrder Traversal InOrder Traversal PosiOrder Traversal Level Order Traversal Level Order Traversal Boundary Traversal(Once level traversal is learnt, this you can solve)  | https://www.neishforceeks.org/brotherms/proceder-framesal/17-<br>page=15.6citego-yr-Treeds-port/pro-submissions<br>https://www.neishforceeks.org/pro-brotherms/pro-der-tramesal/17-<br>page=26.6citego-yr-Treeds-port/pro-brotherms/pro-der-tramesal/17-<br>page=26.6citego-yr-Treeds-port/pro-brotherms/pro-der-tramesal/17-<br>page=26.6citego-yr-Treeds-port/pro-brotherms/pro-der-tramesal/17-<br>page=26.6citego-yr-Treeds-port/pro-brotherms/pro-der-tramesal/17-<br>page=16.6citego-yr-Treeds-port/pro-brotherms/pro-der-tramesal/17-<br>page=16.6citego-yr-Treeds-port/pro-brotherms/pro-der-tramesal/17-<br>page=16.6citego-yr-Treeds-port/pro-brotherms/pro-pro-brotherms/pro-<br>trame/pro-pro-brotherms/pro-pro-brotherms/pro-pro-brotherms/pro-<br>trame/pro-pro-brotherms/pro-brotherms/pro-brotherms/pro-<br>-brotherms/pro-brotherms/p | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | PieCirder Traversal InOrder Traversal Positified Traversal Level Order Traversal Level Order Traversal Bounday Traversal(Once level traversal is learnt, this you can solve) Vertical Traversal(Once level traversal is learnt, this you can solve, ill extra logic is needed)   | This allows a metal forgoes as oppositions between traversal 172 alanes 18-intercoors 7 metals only to whomestone this other as metals for metals only to the control of th                                     | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | PieCirider Traversal  InOrder Traversal  PostCirider Traversal  Level Cirider Traversal  Level Cirider Traversal  Boundary Traversal(Cirice level traversal is learnt, this you can solve)  Vertical Traversal(Cirice level traversal is learnt, this you can solve, ill extra logic is needed)  Top View of BT/Cirice you have mastered level traversal, this should be easy)   | This allows a relationseed as only problems beneated interestal 17 pages 18-bit because 18-bit b                                     | Best Tutorial link - click to view   | Article link-click to view   |  |
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| Binary Search Tree(Once the above<br>patterns are covered, BST probs will<br>become easy, but make sure to learn |  |  |  |  |  |
|--|--|--|--|--|--|
| what BST is in general before starting<br>with probs)  | Understand what BST is?  |  | Best Tutorial link - click to view   |  |  |
|  | Insert a node in BST Search a value in BST(Learn efficient algo to do it, since this can be handled efficiently in BST than                                    | https://leetcode.com/problems/insert-into-a-binary-search-tree/  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | BT)  Search a value in BS1 (Learn emclent algo to do it, since this can be handled emclently in BS1 than BT)   | https://practice.geeksforgeeks.org/problems/search-a-node-in-bst/1   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Find minimum and maximum in BST  | https://www.geeksforgeeks.org/problems/max-and-min-element-in-binary-tree/12page=5&category=Tree&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Find the Kth largest element/kth Smallest in BST(Try to solve it without looking for soln, once you have mastered all the above patterns, this should be easy) | https://www.geeksforgeeks.org/problems/kth-largest-element-in-bst/12<br>page=2&category=Tree&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Check for BST(Try solving probs in this pattern by yourself till LCA once above are solved)  | https://www.geeksforgeeks.org/problems/check-for-bst/1?<br>page=1&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Find the closest element in BST  | https://www.geeksforgeeks.org/problems/find-the-closest-element-in-bst/12<br>page=3&categony=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Count BST nodes in the given range   | https://www.geeksforgeeks.org/problems/count-bst-nodes-that-lie-in-a-given-<br>range/1?page=3&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Largest BST in BT(Super imp - Must solve)  | https://www.geeksforgeeks.org/problems/largest-bst/12<br>page=2&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Lowest Common Ancestor in BST  | https://www.geeksforgeeks.org/problems/lowest-common-ancestor-in-a-<br>bst/1?page=1&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Merge two BST(Super imp - Must solve)  | https://www.geeksforgeeks.org/problems/merge-two-bst-s/17<br>page=4&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Inorder successor and predecessor  | https://www.geeksforgeeks.org/problems/predecessor-and-successor/12<br>page=2&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Populate inorder successor for all nodes   | https://www.geeksforgeeks.org/problems/populate-inorder-successor-for-all-<br>nodes/1?page=5&category=Tree&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to vieww                            |  |
|  | BST to greater sum tree  | https://www.geeksforgeeks.org/problems/bst-to-greater-sum-tree/17<br>page=8&category=Tree&sortBv=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
| Construct from given   | Delete given node from BST   | https://leetcode.com/problems/delete-node-in-a-bst/  | Best Tutorial link - click to view   | Article link-click to view                             |  |
| Construct from given   | Construct Binary Tree from Preorder and Inorder Traversal ( First understand the concept of how to   | https://www.geeksforgeeks.org/problems/construct-tree-1/17   |  |  |  |
|  | derive at the solution, then start coding it by yourself)  Construct Binary Tree from Inorder and Postorder Traversal  | page=1&category=Tree&sortBy=submissions<br>https://eetcode.com/problems/construct-binary-tree-from-inorder-and-<br>postorder-traversaV   | Best Tutorial link - click to view   |  |  |
|  | Construct BST from given preorder traversal  | https://www.geeksforgeeks.org/problems/construct-tree-from-preorder-   | Best Tutorial link - click to view   |  |  |
|  | Construct BT from parent array   | traversal/17page=7&category=Tree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/construct-binary-tree-from-parent-   | Best Tutorial link - click to view  Best Tutorial link - click to view                                     |  |  |
| Subtree & Other must do tree probs   | Construct B i from parent array  | array/17page=5&category=Tree&sortBy=submissions  | Best Tutonal link - click to view  | Article link-click to view                             |  |
|  | Serialize and deserialize BT   | https://www.geeksforgeeks.org/problems/serialize-and-deserialize-a-binary-<br>tree/1?page=4&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Largest subtree sum in a tree  | https://www.geeksforgeeks.org/problems/largest-subtree-sum-in-a-tree/12<br>page=6&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Maximum sum of non adjacent nodes  | https://www.geeksforgeeks.org/problems/maximum-sum-of-non-adjacent-<br>nodes/1?page=3&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Duplicate subtree  | https://www.geeksforgeeks.org/problems/duplicate-subtrees/17<br>page=4&category=Tree&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Flatten BT to linked list  | https://www.geeksforgeeks.org/problems/flatten-binary-tree-to-linked-list/12<br>page=5&category=Tree&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
| Backtracking & Recursion   |  | https://leetcode.com/discuss/general-discussion/680269/a-<br>general-approach-to-backtracking-problems-in-cexhaustive-   |  |  |  |
| advanced - Technique Basic patterns and must solve(Each  | This is super imp topic before moving further!! Draw the recursion tree to understand the flow as the first step, this will help in visualization of the flow  | searching  |  |  |  |
| prob in this pattern will teach you  |  |  |  |  |  |
| something and also as you solve, you<br>will start mastering it though initially it<br>takes sometime)           | Understand the basics of backtracking and start solving  |  |  |  |  |
|  | Permutations of a string   | https://www.geeksforgeeks.org/problems/permutations-of-a-given-<br>string2041/1?page=1&category=Backtracking&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | Permutation II (You can solve on own once you solve above)   | https://leetcode.com/problems/permutations-ii<br>https://www.geeksforgeeks.org/problems/combination-sum-1587115620/12  | Best Tutorial link - click to view   |  |  |
|  | Combination sum II Combination sum III(Once you solve combination I, you should be able to solve this and below 2  | https://www.geekstorgeeks.org/problems/combination-sum-158/115620/17<br>page=18category=Backtracking&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Combination sum III(Once you solve combination I, you should be able to solve this and below 2<br>probs too easily)  Combination sum III                       | https://eetcode.com/problems/combination-sum-ii  | Best Tutorial link - click to view   |  |  |
|  |  | https://leetcode.com/problems/combination-sum-iii<br>https://www.geeksforgeeks.org/problems/rat-in-a-maze-problem/12<br>page=1&category=Backtracking&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | Rat in maze(Once above probs are solved, you can do this easily)   | https://www.geeksforgeeks.org/problems/possible-words-from-phone-digits-   | Best Tutorial link - click to view   |  |  |
|  | Possible words from phone digits   | 1587115620/17page=1&category=Backtracking&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/subsets-1613027340/17   | Best Tutorial link - click to view   |  |  |
|  | Subsets  | page=1&category=Backtracking&cortBy=submissions<br>https://www.geeksforgeeks.org/problems/subsets-1587115621/17<br>page=1&category=Backtracking&cortBy=submissions   | Best Tutorial link - click to view   |  |  |
|  | Unique subset(Solving above, you will be able to solve this easily)  | https://www.geeksforgeeks.org/problems/n-gueen-problem0315/12  | Best Tutorial link - click to view   |  |  |
|  | N-Queen(Super imp) N Queen II  | page=1&category=Backtracking&sortBy=submissions<br>https://leetcode.com/problems/n-queens-ii   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Permutation with spaces  | https://www.geeksforgeeks.org/problems/permutation-with-spaces3627/17<br>page=1&category=Backtracking&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Generate parantheses   | https://www.geeksforgeeks.org/problems/generate-all-possible-<br>parentheses/17page=1&category=Backtracking&sortBy=submissions   | Best Tutorial link - click to view   |  |  |
|  | Generate IP address  | https://www.geeksforgeeks.org/problems/generate-ip-addresses/12<br>page=1&category=Backtracking&cortBy=submissions   | Best Tutorial link - click to view   |  |  |
|  | Solve the sudoku   | https://www.geeksforgeeks.org/problems/solve-the-sudoku-1587115821/12<br>page=18-category=Backtracking&sorfBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | kth permutation  | https://www.geeksforgeeks.org/problems/find-kth-permutation/1?<br>page=2&category=Backtracking&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | Word search  | https://www.geeksforgeeks.org/problems/word-search/12<br>page=3&category=Graph&soffby=submissions  | Best Tutorial link - click to view   |  |  |
|  | Trod scarcii   | https://www.geeksforgeeks.org/problems/find-all-possible-palindromic-  | DESCRIPTION OF SHARE OF SHARE  | CHARLE SELF-SITES IN TRACE                             |  |
|  | Palindrome partition of string   | partitions-of-a-string112 page=2&category=Backtracking&sortBy=submissions https://www.geeksforceeks.grg/problems/decode-the-string2444/12  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Decode the string  | page=1&category=Backtracking&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|  | Letter case permutation  | https://eetcode.com/problems/letter-case-permutation/<br>https://www.geeksforgeeks.org/problems/sum-string3151/12  | Best Tutorial link - click to view   |  |  |
|  | sum string word boggle   | page=1&category=Backtracking&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/word-boggle4143/12<br>page=1&category=Backtracking&sortBy=submissions  | Best Tutorial link - click to view  Best Tutorial link - click to view                                     |  |  |
|  | word boggle Largest number in k swaps  | page=1&category=Backtrackng&sorthy=submissions https://www.geeksforgeeks.org/problems/largest-number-in-k-swaps- 158711562017page=1&category=Backtracking&sorthy=submissions   | Best Tutorial link - click to view   |  |  |
|  | Partition array to k subsets   | https://www.geeksforgeeks.org/problems/partition-array-to-k-subsets/12   | Best Tutorial link - click to view   |  |  |
| Graphs - Data structure  | Most of the probs in this topics can be solved once you learn first couple of probs in each pattern of   | https://eecode.com/discuss/general-discussionionionionionionionionionionionionioni   | SEST TOTOLIST THE - CHEK TO VIEW   | And the Color Division                                 |  |
| Traversals & Basic   | Understand how graph is represented?   | peginners-prouterns-paniern-sample-solutions.  | Best Tutorial link - click to view   |  |  |
|  | BFS Traversal(Super imp and basic)   | https://www.geeksforgeeks.org/problems/bfs-traversal-of-graph/12<br>page=1&category=Graph&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | DFS Traversal(Super imp and basic)   | https://www.geeksforgeeks.org/problems/depth-first-traversal-for-a-graph/12<br>page=1&category=Graph&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Detect cycle in Directed graph   | https://www.geeksforgeeks.org/problems/detect-cycle-in-a-directed-graph/1?<br>page=1&category=Graph&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Detect cycle in Undirected graph   | https://www.geeksforgeeks.org/problems/detect-cycle-in-an-undirected-<br>graph/1?page=1&category=Graph&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Detect Negative cycle in graph   | https://www.geeksforgeeks.org/problems/negative-weight-cycle3504/12<br>page=2&category=Graph&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
| Connected component(After traversal, this will be easy to solve)   |  |  |  |  |  |
|  | Connected component(Once you master this , all the below using this pattern will become super easy)  | https://practice.geeksforgeeks.org/problems/strongly-connected-component-<br>tarianss-algo-1587115621/1  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Number of Provinces(Learn how to solve this prob and solve the below in this pattern)  | https://www.geeksforgeeks.org/problems/number-of-provinces/12<br>page=2&category=Graph&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Number of Islands  | https://www.geeksforgeeks.org/problems/find-the-number-of-islands/12<br>page=1&category=Graph&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
|  | Number of distinct island  | https://www.geeksforgeeks.org/problems/number-of-distinct-islands/12<br>page=2&category=Graph&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view                             |  |
| Pirantin   | Number of closed island  | https://www.geeksforgeeks.org/problems/find-number-of-closed-islands/12<br>page=3&category=Graph&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view                             |  |
| Bipartite  | State and  | https://www.geeksforgeeks.org/problems/bipartite-graph/12<br>page=1&category=Graph&sortBy=submissions  |  | And the second   |  |
|  | Bipartite graph  | https://practice.geeksforgeeks.org/problems/m-coloring-problem-  | Best Tutorial link - click to view   |  |  |
|  | M-colouring  | 1587115620/1<br>https://www.codingninjas.com/studio/problems/shortest-path-in-an-  | Best Tutorial link - click to view   |  |  |
| Shortest Path  | Find shortest path in UG(Once you learn this, try to solve other probs in this pattern by yourself)  | umweighted-graph 981297<br>https://www.geeksforgeeks.org/problems/shortest-path-in-undirected-<br>graph/1?page=1&category=Graph&sortBy=submissions   | Best Tutorial link - click to view   |  |  |
|  | Find shortest path in DAG  | https://www.geeksforgeeks.grg/problems/implementing-diikstra-set-1-  | Best Tutorial link - click to view   |  |  |
|  | Djikstra Algo  | adjacency-matrix/1?page=1&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/steps-by-knight5927/1?   | Best Tutorial link - click to view   |  |  |
|  | Step by Knight   | page=1&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/shortest-source-to-destination-   | Best Tutorial link - click to view   |  |  |
|  | Shortest path source to destiny  | path3544/1?page=1&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/find-whether-path-exist5238/12   | Best Tutorial link - click to view   |  |  |
|  | Find if path exists  | https://www.geeksforgeeks.org/problems/covid-spread141631/12   | Best Tutorial link - click to view   |  |  |
|  | Covid spread   | page=4&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/minimum-cost-path3833/12  | Best Tutorial link - click to view   |  |  |
|  | Minimum cost path  | page=2&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/word-ladder/12  | Best Tutorial link - click to view   |  |  |
|  | Word ladder I  | page=3&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/word-ladder-ii/12   | Best Tutorial link - click to view   |  |  |
|  | Word ladder II   | https://www.geeksforgeeks.org/problems/implementing-floyd-   | Best Tutorial link - click to view   |  |  |
|  | Floyd warshal algo   | warshall 2042/17page=1&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/distance-from-the-source-bellman-   | Best Tutorial link - click to view   |  |  |
|  |  | general genera | Best Tutorial link - click to view   | Article link-click to view                             |  |
| Multi Source   | Bellmanford algo(Imp - Will be used for negative cycle)  | ford-algorithm/1?page=2&category=Graph&sortBy=submissions  |  |  |  |
| Multi Source   | Bellmanford algo(Imp - Will be used for negative cycle) Flood fill   | https://www.geeksforgeeks.org/problems/flood-fill-algorithm1858/12<br>page=1&category=Graph&ortBy=submissions  |  | Article link-click to view                             |  |
| Multi Source   |  | https://www.geeksforgeeks.org/problems/flood-fill-algorithm1858/17   | Best Tutorial link - click to view Best Tutorial link - click to view                                      |  |  |
| Multi Source   | Flood fill   | bitos://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bitos://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bitos://www.qeeksforgeeks.org/problems/flood-fill-org/problems/flood-f | Best Tutorial link - click to view   | Article link-click to view                             |  |
| Multi Source   | Flood fill  Replace O's with XsjBelow can be solved easily in this pattern once you learnt flood fill)  Unit area of largest region of 1s                      | bitos://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bitos://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bitos://www.qeeksforgeeks.org/problems/flood-fill-org/problems/flood-f | Best Tutorial link - click to view  Best Tutorial link - click to view  Best Tutorial link - click to view | Article link-click to view  Article link-click to view |  |
| Multi Source Topological sort  | Flood fill  Replace O's with X's(Below can be solved easily in this pattern once you learnt flood fill)  | https://www.creeksforceeks.com/problems/flood-fillsalporithm1856/17 page=16-astepony-Graph-Bootfily-submissions blook/www.greeksforceeks.com/problems/freelace-as-ewith-xs0052/12 page=16-astepony-Graph-Bootfily-submissions  | Best Tutorial link - click to view  Best Tutorial link - click to view                                     | Article link-click to view  Article link-click to view |  |

|  | Topological sort algo(Learning this algo, will make you solve all the probs in this pattern)   | https://www.geeksforgeeks.org/problems/topological-sort/12<br>page=1&category=Graph&sorfby=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|--|--|--|---|--|--|
|  | Prerequisite tasks   | https://www.geeksforgeeks.org/problems/prerequisite-tasks/1?   | Best Tutorial link - click to view  |  |  |
|  |  | page=2&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/course-schedule/1?  |   |  |  |
|  | Course schedule I  | page=3&category=Graph&sortBy=submissions<br>https://leetcode.com/problems/course-schedule-ii   | Best Tutorial link - click to view<br>Best Tutorial link - click to view  | Article link-click to view Article link-click to view  |  |
|  | Eventual safe states   | https://www.geeksforgeeks.org/problems/eventual-safe-states/17<br>page=2&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  |  |  |
|  |  | https://www.geeksforgeeks.org/problems/alien-dictionary/12   |   |  |  |
| Minimum Spanning Tree  | Alien dictionary   | page=1&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Minimum spanning tree(Once you learn this, then you will be able to solve the probs in this pattern by yourself)   | https://www.geeksforgeeks.org/problems/minimum-spanning-tree/17<br>page=1&category=Graph&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|  |  | https://www.codingninias.com/studio/problems/code-kruskal-s-   |   |  |  |
|  | Kruskals algo<br>Minimum cost to connect cities  | algorithm_6320<br>https://leetcode.com/problems/connecting-cities-with-minimum-cost  | Best Tutorial link - click to view Best Tutorial link - click to view   | Article link-click to view Article link-click to view  |  |
|  | Minimum cost to connect all points   | https://leetcode.com/problems/min-cost-to-connect-all-points/  | Best Tutorial link - click to view  | Article link-click to view   |  |
| Disjoint set   | Optimize water distribution  | https://leetcode.com/problems/optimize-water-distribution-in-a-village   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Learn the disjoint set Algo  |  | Best Tutorial link - click to view  |  |  |
|  | Union by rank, path compression(Super imp, dont skip)  | https://leetcode.com/problems/number-of-operations-to-make-network-  | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Networks connected   | connected/<br>https://www.geeksforgeeks.org/problems/minimum-swaps/12  | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Minimum swaps to sort  | page=1&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/santa-banta2814/12  | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Santa Banta  | page=3&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Number of pairs  | https://www.geeksforgeeks.org/problems/number-of-pairs-1845358985/1?<br>page=5&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Number of Island II<br>Making a large island   | https://leetcode.com/problems/number-of-islands-ii/<br>https://leetcode.com/problems/making-a-large-island   | Best Tutorial link - click to view<br>Best Tutorial link - click to view  | Article link-click to view Article link-click to view  |  |
| Must solve imp algos   | making a large island  |  | Dest Totorial link - Citck to view  | AUGE HIN CIGA ID VEW   |  |
|  | Bridges in graph   | https://www.geeksforgeeks.org/problems/bridge-edge-in-graph/12<br>page=3&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Articulation point   | https://www.geeksforgeeks.org/problems/articulation-point-1/17<br>page=3&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Critical connection  | https://www.geeksforgeeks.org/problems/critical-connections/12<br>page=5&category=Graph&ortBy=submissions  | Best Tutorial link - click to view  |  |  |
|  |  | https://www.geeksforgeeks.org/problems/strongly-connected-components-  |   |  |  |
|  | Kosaraja algo (Strongly connected component algo) Word boggle  | kosarajus-algo/1?page=2&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/word-boggle4143/12   | Best Tutorial link - click to view<br>Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Word boggle II   | https://www.geeksforgeeks.org/problems/word-boggle-ii141631/1?   | Best Tutorial link - click to view  | Article link-click to view   |  |
| Greedy - Technique<br>Basics and must solves   |  |  |   |  |  |
|  | Minimum number of jumps  | https://www.geeksforgeeks.org/problems/minimum-number-of-jumps-<br>1587115620/17page=18.category=Greedy&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Minimum operations   | https://www.geeksforgeeks.org/problems/find-optimum-operation4504/12<br>page=1&category=Greedy&sorfBy=submissions  |   | Article link-click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/minimize-the-sum-of-  |   |  |  |
|  | Minimize the sum of product  | product1525/1?page=1&category=Greedy&sortBy=submissions https://www.geeksforgeeks.org/problems/largest-number-possible5028/1?  | Best Tutorial link - click to view  |  |  |
|  | Largest number possible  | page=1&category=Greedy&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/lemonade-change/1?   | Best Tutorial link - click to view  |  |  |
|  | Lemonade change  | page=2&category=Greedy&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Activity selection prob(Super imp)   | https://www.geeksforgeeks.org/problems/activity-selection-1587115620/12<br>page=1&category=Greedy&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | N meetings in a room(Super imp)  | https://www.geeksforgeeks.org/problems/n-meetings-in-one-room-<br>1587115620/17page=1&category=Greedy&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Minimum platforms  | https://www.geeksforgeeks.org/problems/minimum-platforms-<br>1587115620/17page=18category=Greedy&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Minimize the height  | https://www.geeksforgeeks.org/problems/minimize-the-heights-i/12<br>page=2&category=Greedy&sortBy=submissions  | Best Tutorial link - click to view  |  |  |
|  | Minimum number of coins using greedy(This can be solved using naive, DP also but make sure to  | https://www.geeksforgeeks.org/problems/-minimum-number-of-coins4428/11   |   |  |  |
|  | use greedy here)   | https://www.geeksforgeeks.org/problems/job-sequencing-problem-   | Best Tutorial link - click to view  |  |  |
|  | Job sequencing prob  | 1587115620/17page=18category=Greedy&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/fractional-knapsack-  | Best Tutorial link - click to view  |  |  |
|  | Fractional knapsack  | 1587115620/1?page=1&category=Greedy&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/jump-game/1?  | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Jump game<br>Insert interval   | page=2&category=Greedy&sortBy=submissions https://leetcode.com/problems/insert-interval/   | Best Tutorial link - click to view<br>Best Tutorial link - click to view  | Article link-click to view Article link-click to view  |  |
|  | Merge interval   | https://leetcode.com/problems/merge-intervals/   | Best Tutorial link - click to view  |  |  |
|  | Non overlapping interval   | https://leetcode.com/problems/non-overlapping-intervals/<br>https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes-   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Minimum cost of ropes Partition labels   | 1587115620/1   | Best Tutorial link - click to view  |  |  |
|  | Partition labels  Cinema seat allocation   | https://lectcode.com/problems/partition-labels/<br>https://lectcode.com/problems/cinema-seat-allocation/   | Best Tutorial link - click to view<br>Best Tutorial link - click to view  | Article link-click to view Article link-click to view  |  |
|  | Max length chain   | https://www.geeksforgeeks.org/problems/max-length-chain/17<br>page=1&category=Greedy&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Valid parantheses - Minimum  | https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  |  |  |   |  |  |
|  | Shortest job first   | https://practice.geeksforgeeks.org/problems/shortest-job-first/1<br>https://practice.geeksforgeeks.org/problems/tru-cache/1?   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | Shortest job first  Least recently used  | https://practice.geeksforgeeks.org/problems/shortest-job-first/1<br>https://practice.geeksforgeeks.org/problems/fu-cache/12<br>utm_source-syoutube&utm_medium=collab_fraz_websitelink&utm_campaigs_<br>LRU+Cache   |   |  |  |
|  | Least recently used  | https://practice.geeksforgeeks.org/problems/ru-cache/17<br>utm_source=youtube&utm_medium=collab_fraz_webaitelink&utm_campaig<br>=LRU+Cache   | Best Tutorial link - click to view  |  |  |
| Dynamic Programming -<br>Technique   |  | https://practice.geeksforgeeks.org/problems/lru-cache/12<br>utm_source=voutube&utm_medium=collab_fraz_websitelink&utm_campaig  | Best Tutorial link - click to view  |  |  |
| Dynamic Programming -<br>Technique<br>Basic  | Least recently used  DP is super crucial logic and very commonly asked in many interviewell. One major thing you need to two vis. don't start with tabulation approach directly, these wrong way to learn DP. First find the solution using recursion, then memoization and then finally tabulation and space reduction in tabulation.   | https://practice.geeksforgeeks.org/problems/ru-cache/17<br>utm_source=youtube&utm_medium=collab_fraz_webaitelink&utm_campaig<br>=LRU+Cache   | Best Tutorial link - click to view  Rest Tutorial link - click to view  | Article link-dick to view  |  |
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| Technique<br>Basic   | Least recently used.  Least recently used.  Least recently used on any commonly asked in many intervieworl? Our major things on seed to review is done that with this bladders approach directly, these every any or learn DR Farfards the solution using recursion, then memoization and then finally labulation and space reduction in stabilation.  Understand the basical!   | https://incide.co.gets/dorgets.org/problems/loc-action/10/<br>https://incide.co.gets/dorgets/loc-action/10/<br>14/04/Cation-10/<br>https://incide.co.gets/dorgets/loc-action/10/<br>https://incide.co.gets/dorgets/loc-action/10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cation-10/<br>14/04/Cat | Best Tutorial link - click to view  Best Tutorial link - click to view  Rest Tutorial link - click to view  | Acticle link click to view  Acticle link click to view   |  |
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| Tachnique Basic  10 - Linear DP  20 Grid DP  DP on subsequence   | Litted recently used  20 a specimen force and eye commonly asked in many interviewed if One major thing you need to have seen commonly asked in many interviewed if One major thing you need to have seen and expected in the soulce or seen and the process of the seen and the soulce or seen and the process of the seen and the soulce or seen and the process of the seen and the soulce or seen and the seen and t | https://www.enkidoneeds.org/active/demands.org/acti   | Best Tutorial link - click to view  | Article link-click to view   |  |
| Tachnique Basic  10 - Linear DP  20 Grid DP  DP on subsequence   | Litted recertify used  20 is since come to lock and eye commonly asked in many interviewal if One major thing you are able to a common and the control of th | these furnishes a central process on approximation to carbot IT and the contract of the contra   | Best Tutorial link - click to view  Best Tutorial link - click to | Article link-click to view   |  |
| Tachnique Basic  10 - Linear DP  20 Grid DP  DP on subsequence   | Least recordly used  Oils a spec access tools and sey commonly asked in many sterviewal? One major thing you need to horse a count and with blooksons approach directly, that's awang way to seam DP. First find the solution using rectarion, then memoration and then finally labulation and space reduction in the solution.  Understand the basical!  Understand the basical!  Count way to reach rish stain (Order dosen't matter)  House robber and the stain of the state of the s | https://presides.genesides   | Best Tutorial link - click to view  Best Tutorial link - click to | Article link-click to view                             |  |
| Technique Basic  10 - Linear DP  20 Grid DP  DP on subsequence   | Latest recently used  20 a separation based and expression and separation facility that a wrong way to learn DP Final for the southern surpression and the major being you need to show the south of the separation of the southern surpression and the finally labelation and space reduction.  Understand the basical!  Court num of hops  Court way to reach nith stair(Order matters)  Court subset of the second of the | https://preside.google.   | Best Tutorial link - click to view  | Article link-click to view   |  |
| Technique Basic  10 - Linear DP  20 Grid DP  DP on subsequence  DP on Increasing subsequence                                     | Litted recently used  20 is speciation for both and expected of the process of th | https://presides.genesides   | Best Tutorial link - click to view  Best Tutorial link - click to | Article link-click to view   |  |
| Technique Basic  10 - Linear DP  2D Grid DP  DP on subsequence   | Litted recordly used  Oil's spec count look and one you commonly asked in many sterviewed if One major thing you need by showns about set and this bladders approach directly, that's arrong way to learn DP. First find the souldon usery receivant, then memorated and then finally labulation and special reduction in the souldon usery receivant, then memorated and then finally labulation and special reduction in the souldon users are reduction in the souldon users are reduction in the souldon and special reduction in the beautiful country of the property of the souldon's and special reduction in the s | titles (transfer agents fragresia organizations) to activat 17  Landing and the state of the sta   | Best Tutorial link - click to view  Best Tutorial link - click to | Article link-click to view   |  |
| Technique Basic  1D - Linear DP  2D Grid DP  DP on subsequence  DP on increasing subsequence  DP on strings(Using Longest common | Later recently used  28 a speciation to proceed we procession and special forming in the part of the p | titles (transfer agents fragresia organizations) to activat 17  Landing and the state of the sta   | Best Tutorial link - click to view  Best Tutorial link - click to | Article link-click to view   |  |
| Technique Basic  10 - Linear DP  20 Grid DP  20 Grid DP  DP on subsequence  DP on Increasing subsequence                         | Litted recordly used  Oil's spec count look and one you commonly asked in many sterviewed if One major thing you need by showns about set and this bladders approach directly, that's arrong way to learn DP. First find the souldon usery receivant, then memorated and then finally labulation and special reduction in the souldon usery receivant, then memorated and then finally labulation and special reduction in the souldon users are reduction in the souldon users are reduction in the souldon and special reduction in the beautiful country of the property of the souldon's and special reduction in the s | thiss furnishes a celestrogeness and proteinments to a capte of the common of the comm   | Best Tutorial link - click to view  Best Tutorial link - click to | Article link-click to view  Article link-click to view |  |

|   |  | hilloculturary applies are formable and format all less appropries 2412/12   |  |  |  |
|---|--|--|--|--|--|
|   | Print Longest common subsequence(Here you will need to print the string so must solve)   | https://www.geeksforgeeks.org/problems/print-all-lcs-sequences3413/12<br>page=7&category=Dynamic%20Programming&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|   | Longest palindromic subsequence  | https://leetcode.com/problems/longest-palindromic-subsequence<br>https://leetcode.com/problems/minimum-insertion-steps-to-make-a-string-   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Form a palindrome with minimum insertions  | paindrome  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   |  | https://www.geeksforgeeks.org/problems/minimum-number-of-deletions-<br>and-insertions0209/1?page=4&category=Dynamic%   |  |  |  |
|   | Min num of deletions and insertions to make string s1 equal to s2  | 20Programming&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/shortest-common-  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Shortest common supersequence  | supersequence0322/1?page=2&category=Dynamic%<br>20Programming&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   |  | https://www.geeksforgeeks.org/problems/longest-common-substring1452/1?   |  |  |  |
|   | Longest common substring/subarray  | page=1&category=Dynamic%20Programming&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/longest-palindrome-in-a-  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   |  | string3411/1?page=1&category=Dynamic%  | Best Tutorial link - click to view   | A state that a state at a state of   |  |
|   | Longest palindromic substring  | 20Programming&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/longest-repeating-  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Longest receating subsequence  | https://www.geeksforgeeks.org/problems/longest-repeating-<br>subsequence2004/17page=28.category=Dynamic%<br>20Programming&status=solved&sorfBy=submissions   | Best Tutorial link - click to view   | Autialo link alink to view   |  |
| DP on string  | Longest repeating subsequence  |  | Dest foldright link - Click to view  | ATTAC TITLE OF A TO VEW  |  |
|   | Edit distance (All the probs in this pattern are super imp, each prob is different so do solve all)  | https://www.geeksforgeeks.org/problems/edit-distance3702/12<br>page=1&category=Dynamic%20Programming&sortBy=submissions  | Best Tutorial link - click to view   | Artista Salv aliab to view   |  |
|   | Euit distance (virine proof in this patient are super imp, each proof is directin so do soive an)  | https://www.geeksforgeeks.org/problems/distinct-occurrences/1?   | DESCRIPTION OF THE PROPERTY OF | ATTAC THE CITY TO VEW  |  |
|   | Distinct occurence   | page=3&category=Dynamic%<br>20Programming&status=solved&sortBy=submissions   | Best Tutorial link - click to view   |  |  |
|   | William Control of the Control of th | https://www.geeksforgeeks.org/problems/wildcard-pattern-matching/1?  | Dest Translation of the con-   | And the Property of the Control of t |  |
|   | Wildcard pattern matching  | page=4&category=Dynamic%20Programming&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/longest-valid-parentheses5857/12  | Best Tutorial link - click to view   |  |  |
|   | Longest valid parentheses  | page=3&category=Dynamic%20Programming&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/word-break1352/1?   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Word break   | page=3&category=Dynamic%20Programming&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Word break II  | https://www.geeksforgeeks.org/problems/word-break-part-23249/12<br>page=5&category=Dynamic%20Programming&sortBy=submissions  |  | Article link-click to view   |  |
|   | Word wrap  | https://www.geeksforgeeks.org/problems/word-wrap1646/12  | Best Tutorial link - click to view   |  |  |
|   |  | page=4&category=Dynamic%20Programming&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/interleaved-strings/12  |  |  |  |
| 20  | Interleaved strings  | page=3&category=Dynamic%20Programming&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
| DP on stocks(Was asked in one of my<br>interview too, so dont miss any ques<br>from this pattern) |  |  |  |  |  |
| from this pattern)  | Best time to buy and sell stock  | https://leetcode.com/problems/best-time-to-buy-and-sell-stock/   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Best time to buy and sell stock II(Once you solve the above prob, all probs in this pattern are extend   |  | Best Tutorial link - click to view   |  |  |
|   | Best time to buy and sell stock III  | https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iii/   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Best time to buy and sell stock IV   | https://eetcode.com/problems/best-time-to-buy-and-sell-stock-iv/<br>https://eetcode.com/problems/best-time-to-buy-and-sell-stock-with-   | Best Tutorial link - click to view   |  |  |
|   | Best time to buy and sell stock with cooldown  | cooldown!  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Best time to buy and sell stock with transaction fee   | https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-<br>transaction-fee/  | Best Tutorial link - click to view   | Article link-click to view   |  |
| DP on partition and MCM   | Maria de la companya del companya de la companya de la companya del companya de la companya de l |  |  |  |  |
|   | Matrix chain multiplication(Quite tricky pattern, every prob is diff and teaches something so do<br>solve all)   | https://www.geeksforgeeks.org/problems/matrix-chain-multiplication/303/12<br>page=2&category=Dynamic%20Programming&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
|   | Minimum cost to cut stick  | https://eetcode.com/problems/minimum-cost-to-cut-a-stick/  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Burst balloons   | https://www.geeksforgeeks.org/problems/burst-balloons/1?<br>page=8&category=Dynamic%20Programming&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Boolean Parenthesization   | https://www.geeksforgeeks.org/problems/boolean-parenthesization5610/12<br>page=3&category=Dvnamic%20Programming&crtBv=submissions  | Best Tutorial link - click to view   |  |  |
|   |  | https://www.geeksforgeeks.org/problems/palindromic-patitioning4845/17  |  |  |  |
|   | Palindrom partitioning Partition array for max sum   | page=2&category=Dynamic%20Programming&sortBy=submissions<br>https://leetcode.com/problems/partition-array-for-maximum-sum/   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |  |
|   | ·  | https://www.geeksforgeeks.org/problems/max-rectangle/12<br>page=38category=Dynamic/s20Programming&sortBy=submissions   |  |  |  |
|   | Max rectangles area with all 1s  Count square submatrices  | page=3&category=Dynamic%20Programming&sortBy=submissions<br>https://leetcode.com/problems/count-square-submatrices-with-all-ones/  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view Article link-click to view  |  |
| Heaps - Data structure  |  |  |  |  |  |
| Basic patterns  |  |  |  |  |  |
|   | What is heap? Understand the data structure Min heap implementation  | Min Heap Implementation - Coding Ninjas  | Best Tutorial link - click to view Best Tutorial link - click to view  |  |  |
|   | Max heap implementation  | https://www.gatevidvalay.com/tag/max-heap-questions/   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Convert min heap to max heap   | https://www.geeksforgeeks.org/problems/convert-min-heap-to-max-heap-<br>1686385109/1   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Top k pattern   | Convert min neap to max neap   | 1000001031   | DESCRIBITION OF CHER TO VIEW   | PRODUCTION TO VICTOR   |  |
|   | kth largest in array   | https://www.geeksforgeeks.org/problems/k-largest-elements4208/17   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | kth smallest in array  | page transport inspector by southerness  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Top k frequent elements  | https://leetcode.com/problems/top-k-frequent-elements/   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Top k frequent words Frequency sort  | https://leetcode.com/problems/top-k-frequent-words<br>https://leetcode.com/problems/sort-characters-by-frequency/  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |  |
|   |  | https://www.geeksforgeeks.org/problems/kth-largest-element-in-a-   |  |  |  |
|   | kth largest num in streams Reorganize string   | stream2220/17page=1&category=Heap&sortBy=submissions<br>https://leetcode.com/problems/reorganize-string/   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Reorganize string k distance apart   | https://leetcode.com/problems/rearrange-string-k-distance-apart  | Best Tutorial link - click to view   |  |  |
|   | kth smallest sum of matrix   | https://leetcode.com/problems/find-the-kth-smallest-sum-of-a-matrix-with-<br>sorted-rows/  | Best Tutorial link - click to view   |  |  |
|   | ugly num II  | https://leetcode.com/problems/ugly-number-ii/  | Best Tutorial link - click to view   |  |  |
| Merge k sorted pattern  |  |  |  |  |  |
|   | Merge k sorted array<br>k pairs with smallest sum  | https://practice.geeksforgeeks.org/problems/merge-k-sorted-arrays/1<br>https://leetcode.com/problems/find-k-pairs-with-smallest-sums/  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |  |
|   | k smallest nums in M sorted list   | https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/   | Best Tutorial link - click to view   |  |  |
| Two heaps pattern   |  |  |  |  |  |
|   | Find median from data stream   | https://www.geeksforgeeks.org/problems/find-median-in-a-stream-<br>1587115620/1?page=1&category=Heap&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Sliding window median  | https://leetcode.com/problems/sliding-window-median/   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Minimum number pattern  | Maximum capital/IPO  | https://leetcode.com/problems/ipo/   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Millimoni number pattern  |  | https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes-<br>1587115620/1   |  |  |  |
|   | Minimum cost to connect ropes Meeting room II  | 1587115620/1<br>https://leetcode.com/problems/meeting-rooms-ii   | Best Tutorial link - click to view  Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Minimum cost to hire k workers   | https://leetcode.com/problems/minimum-cost-to-hire-k-workers/  | Best Tutorial link - click to view   |  |  |
|   | Minimum num of CPU   | https://leetcode.com/problems/task-scheduler/  | Best Tutorial link - click to view   | Article link-click to view   |  |
| Trie - Data structure   | Minimum num of refueling stops   | https://leetcode.com/problems/minimum-number-of-refueling-stops/   | Best Tutorial link - click to view   | Article link-click to view   |  |
| Basic and must solve  |  |  |  |  |  |
|   | Implement Trie from scratch  | https://www.codingninjas.com/studio/problems/implement-trie_631358   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   |  | https://www.geeksforgeeks.org/problems/word-break-trie141631/12<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   |  |  |  |
|   | Word break (Do solve it using trie, though you had solved this already)  | cky on Article   | Best Tutorial link - click to view   |  |  |
|   | Longest string with all prefixes   | https://leetcode.com/problems/longest-common-prefix/<br>https://www.geeksforgeeks.org/problems/maximum-xor-of-two-numbers-in-  | Best Tutorial link - click to view   | PUBLIC IFFICION TO VIEW  |  |
|   |  | an-array/12 itm_source=neeksforneeks&itm_medium=Article&itm_campaign=hottom_sti  |  |  |  |
|   | Maximum XOR of two numbers in array  | cky on Article   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   |  | https://www.geeksforgeeks.org/problems/unique-rows-in-boolean-matrix/12<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   | L  |  |  |
|   | Unique rows in boolean matrix Prefix match with other strings  | cky on Article   | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |  |
| Ctains  | Prenx match with other strings involves diff techniques, algos which are already covered. In this section, we will focus on string specific imp probs and algos  | and the state of t | THE PART OF THE PA |  |  |
| String Must solve and Algos specific to string  | covered. In this section, we will focus on string specific imp probs and algos   |  |  |  |  |
| a   | Implement Atoi   | https://www.geeksforgeeks.org/problems/implement-atoi/1  | Best Tutorial link - click to view   |  |  |
|   | Count and say  | https://leetcode.com/problems/count-and-say/   | Best Tutorial link - click to view   |  |  |
|   |  | https://www.geeksforgeeks.org/problems/count-the-reversals0401/1?<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   | L  |  |  |
|   | Minimum bracket reversals  | cky_on_Article https://practice.geeksforgeeks.org/problems/search-pattern-rabin-karp-  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Rabin karp algo( Pattern searching, super imp, this was infact asked in one of my interview)   | algorithm141631/1  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Boyer moor algo (Pattern searching)  | https://www.codingninjas.com/studio/problems/boyer-moore-algorithm-for-<br>pattern-searching_1115634   | Best Tutorial link - click to view   |  |  |
|   | KMP algo ( Longest prefix suffix, super imp)   | https://practice.geeksforgeeks.org/problems/longest-prefix-suffix2527/1  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Longest happy prefix Remove all adiacent duolicates  | https://www.geeksforgeeks.org/longest-prefix-also-suffix/<br>https://leetcode.com/problems/remove-all-adiscent-duplicates-in-string/   | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
|   | Hashing in strings   | https://www.geeksforgeeks.org/practice-problems-on-hashing/  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Print all anagrams   | https://leetcode.com/problems/group-anagrams/  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Z - Function   | https://practice.geeksforgeeks.org/problems/search-pattern-z-algorithm-<br>141631/1  | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Shortest palindrome  | Shortest Palindrome - LeetCode   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Circle of strings  | https://www.geeksforgeeks.org/problems/circle-of-strings4530/1 https://www.geeksforgeeks.org/problems/roman-number-to-integer3201/12   | Best Tutorial link - click to view   | Article link-click to view   |  |
|   | Demon supposals to decimals  | https://www.geeksforgeeks.org/problems/roman-number-to-integer3201/12<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   | Best Tutorial link - click to view   | Autiato tinh edials to sinss   |  |
|   | Roman numerals to decimals   | cky_on_Article   | page records IFIX - Click to view  | COLOR WASHING WASH   |  |
| There are couple of more topics, bit man  | nipulation, segment trees and AVL trees which has limited number of probs, so do check that or   | out if you have good amount of time still left   |  |  |  |
| Checkout this for bit tricks - https://leetc  | code.com/discuss/general-discussion/1073221/All-about-Bitwise-Operations-Beginner-Interme  | diate  |  |  |  |
|   |  |  |  |  |  |
|   |  |  |  |  |  |
| Leetcode Article for behavioural  |  |  |  |  |  |
| rounds  | https://leetcode.com/discuss/interview-experience/1532708/tips-for-answering-few-  | tricky-behavioural-interview-questions   |  |  |  |
| rounds<br>Leetcode Article for major<br>patterns  | https://leetcode.com/discuss/general-discussion/665604/Important-and-Useful-links  |  |  |  |  |
| rounds<br>Leetcode Article for major<br>patterns<br>Resume standard template                      | https://leetcode.com/discuss/general-discussion/665604/Important-and-Useful-link/<br>https://www.overleaf.com/Articles/ravi-kukretis-resume/cxprrkxbccgb   |  |  |  |  |
| rounds<br>Leetcode Article for major<br>patterns<br>Resume standard template                      | https://leetcode.com/discuss/general-discussion/665604/Important-and-Useful-links  |  |  |  |  |