Curious freaks CODING SHEET by Nandhini
Checkout this video to understand efficient way to use this sheet - https://www.be/ALpPSZFok/Q
Youtube Channel - https://www.youtube.com/@curiousfreaks
Lets use #CFCodingSheet tag to share with friends on social media - https://www.instagram.com/its\_me\_nandyy
Connect with me on Linkedin - https://www.linkedin.com/in/nandhini-raja-8b71b4143/
Only sheet you need to get placed in super high paying companies including google, amazon, salesforce, microsoft, adobe, etc
Solving time: Teasy Problems: 8 to Yolinis

Aring time - Easy Problems - 5 to Temms
(ring time - Medium - Policy Delimins)
(ring time - Medium - Policy Delimins)
(ring time - Hard problems - At max 45mins - 55mins)
(Note: You can use tutorials to learn the pattern in each topics. For problems in similar pattern, once you learn first prob, so try to solve others in that pattern by your

TOPIC

Problem

Problem link Solution Tutorial Solution Article Solved Notes https://practice.genetoses.org/problems/find-last-digit-of-ab-for-numbers1936/1. https://practice.geeksforgeeks.org/problems/count-digits5716/1. Find last digit in a number

Count digits in a number(Solving above last digit prob will make this easy for you)

Reverse a number(Try ffinking how you can use above logic in solving this)
Find power of a number

GCD Best Tutorial link - click to view

Rest Tutorial link - click to view

Rest Tutorial link - click to view

Article link-click to view

Article link-click to view

Article link-click to view

Best Tutorial link - click to view

Article link-click to view

Article link-click to view https://practice.geeksforgeeks.org/problems/god-of-two-numbers3459/1 Print all divisors of a number Best Tutorial link - click to view Article link-click to view Best Tutorial link - click to view Article link-click to view Article link-click to view Prime number(Try solving by yourself)
Armstoray number(Solving power of number, will make this easy for you)
Check plainform of number(Use the lectoriques you learnt so far solving above probs and solve
flist by yourself)
Square cool of a number(Try to first figure out algo to solve this) This is a huge topic and array acts as base data structure for many concepts, so let the basics in this section. For all the data struture moving forward, make sure to vis note down and understand how it is represented. What is an array? How is it represented?
Find the maximum and minimum element in array/After solving the search, you can solve all probabilities of the search and the sear Best Tutorial link - click to view Article link-click to view Best Tutorial link - click to view Article link-click to view
Best Tutorial link - click to view Article link-click to view https://www.geeksforgeeks.org/problems/search-an-element-in-ar 1587115621/1 Find missing number in array Find repeating number in array 1994231/17; 1914231/17; Int source=geeksforgeeks&itm\_medium=Article&itm\_campaign=bottom\_sti-cky\_on\_Article Sort an array of 0s , 1s and 2s (You dont need to know any sorting algo, just using basics, once solved, definitely learn the optimal algo) Best Tutorial link - click to view Article link-click to view Check if two arrays are equal or not Best Tutorial link - click to view Article link-click to view Best Tutorial link - click to view Article link-click to view
Best Tutorial link - click to view Article link-click to view Best Tutorial link - click to view Article link-click to view

Best Tutorial link - click to view Article link-click to view Array subset of another array Learn what is map and how its represented before moving forward hillps://practice.geeksforgeeks.org/problems/frequency-of-array-elements-1587115620/1 Count frequency of elements in array(Solve efficiently, try applying what yo Best Tutorial link - click to view Article link-click to view que) Just like search, sort, this is also imp technique to learn umps://www.geeksforgeeks.org/problems/key-pair5818/12 ilm\_source-geeksforgeeks8itm\_medium=Article8itm\_cams cky\_on\_Article Best Tutorial link - click to view Article link-click to view Find pair with given sum https://www.geeksforgeeks.org/problems/triplet-sum-in-array-1587115621/12 itm\_source=deeksforgeeks&itm\_medium=Article&itm\_campair 3 Sum
4 Sum
Find triplets with zero sum
Find count of triplets Best Tutorial link - click to view

Article link-click to view

Article link-click to view Count the triplets | Practice | GeeksforGeeks Union of two arrays(Learn the brute force & optimal soln, you will learn about set do which will be super useful in many probs in brute force) Best Tutorial link - click to view Article link-click to view https://www.geeksforgeeks.org/problems/intersection-of-two-arrays2404/12 itm\_source=geeksforgeeks&itm\_medium=Article&itm\_campsign=bottom\_sti-cky\_on\_Article Remove duplicates from array(Quite diff from above, try to solve on own, this actually sh not always you will have pointers at start and end) sforgeeks&itm\_medium=Article&itm\_campaign=bottom\_sti xsforgeeks.org/problems/k-th-element-of-two-sortedhttps://www.ger array1317/12 itm\_source=ger cky\_on\_Article Best Tutorial link - click to view Article link-click to view kth element of 2 sorted arrays https://www.geeksforgeeks.org/problemsilongest-sub-array-with-sum-k88991? itm\_source=geeksforgeeks&itm\_medium=article&itm\_campaign=bottom\_sti-cky\_on\_article Length of longest subarray with sum k Best Tutorial link - click to view Article link-click to view Trapping rain water Must Solve https://practice.g Kadane's algo(super imp) geeksforgeeks.org/problems/inversion-of-arrayhttps://practice 1587115620/1 Best Tutorial link - click to view
Best Tutorial link - click to view
Article link-click to view rsal & Basic & Must solve Best Tutorial link - click to view Article link-click to view What is a 2D Array? How to access ele https://www.geeksforgeeks.org/problems/row-with-minimum-number-of-1s6430172 itm\_source=geeksforgeeks8itm\_medium=Article8itm\_campsign=bottom\_sti-cky\_on\_Article Maximum num of 1's row Left rotate matrix k times Best Tutorial link - click to view Article link-click to view

2351/1 Best Tutorial link - click to view Article link-click to view https://www.geeksforgeeks.org/problems/print-matrix-in-diagonal-pattern/12 itm\_source=geeksforgeeks&itm\_medium=Article&itm\_campaign=bottom\_sti-cky\_on\_Article Print matrix in diagonal pattern Set matrix zeros Understand what recursion is and how it works(Draw the recursive tree for every recursive probyou solve) Print 1 to N using recursion Factorial of N numbers eeksforgeeks.org/problems/factorial5739/1 https://www.geeksforgeeks.org/problems/nth-fibonacci-number1335/12 fm\_source=geeksforgeeks&ifm\_medium=Article&ifm\_campaign=bottor Power(x,n) Draw the recursion tree for all the probs for sure https://www.geeksforgeeks.org/problems/print-pattern3549/17 page=1&category=Recursion&difficulty=Easy&sortBy=submissi Print pattern https://practice.geeksforgeeks.org/problems/implement-stoi/12 utm\_source=geeksforgeeks&utm\_medium=ml\_Article\_practice\_tab&utm mpsign=Article\_practice\_tab Recursive implementation of atoi Binary Search - Algo https://www.geeksforgeeks.org/problems/who-will-win-1587115621/17 page=1&category=Binary%20Search&sortBy=submissions Search in a sorted array(Efficiently -> So learn binary search for this) Best Tutorial link - click to view Article link-click to view Find floor and ceil in sorted array https://www.geeksforgeeks.org/problems/first-and-last-occurrences-of-c3116/17page=18category=Binary%20Search&sortBy=submissions Find first and last occurence of element in sorted array Find missing num from 1 to N Best Tutorial link - click to view Article link-click to view
Best Tutorial link - click to view Article link-click to view s://www.geeksforgeeks.org/problems/square-root/1? source-geeksforgeeks&itm\_medium=Article&itm\_car on\_Article Best Tutorial link - click to view Article link-click to view Find square root Search element in sorted rotated array(With and without duplicate) Best Tutorial link - click to view Article link click to view https://www.geeksforgeeks.org/problems/minimum-number-in-a-s-rotated-array-1587115620/1?page=1&category=Binary%; 20Search&sortBy=submissions 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. 

Best Tutorial link - click to view Article link click to view

Best Tutorial link - click to view Article link click to view

Number of times array is sorted

Maximum element in sorted rotated array

| Biotonic array  |  | https://www.geeksforgeeks.org/problems/peak-element/1?  |  |  |  |
|---|--|---|--|--|--|
|   | Find the peak element  | page=1&category=Arrays&difficulty=Medium&status=solved&sortBy=submis<br>sions   | Best Tutorial link - click to view                                       | Article 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   |  |
| Matrix  |  | https://www.geeksforgeeks.org/problems/binary-matrix-having-maximum-  |  |  |  |
|   | Find row with maximum number of 1's  | number-of-1s-170847/1?page=2&category=Binary%<br>20Search&sortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Search in row wise column wise sorted matrix   | https://www.geeksforgeeks.org/problems/search-in-a-matrix-1587115821/17;<br>itm.source=geeksforgeeks&itm.medium=Article&itm.campaign=bottom.sti<br>ckv. on. Article                                   |  |  |  |
|   | Search in sorted matrix II   | https://leetcode.com/problems/search-a-2d-matrix-ii/  | Best Tutorial link - click to view<br>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  |  |
| Application(outper linp)  | Aggressive cows  | https://www.geeksforgeeks.org/problems/aggressive-cows/17<br>page=1&category=Binary%20Search&sortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
|   | Aggressive cows  | https://www.geeksforgeeks.org/problems/allocate-minimum-number-of-  | Dest futural link - Click to view  | Acide sirk dick to view  |  |
|   | Allocate minimum pages   | pages0937/17<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   |  |
|   | Painter natition   | https://www.geeksforgeeks.org/problems/the-psinters-partition-<br>problem1535/17page=1&category=Binary%20Search&sortBy=submissions  | Best Tutorial link - click to view                                       |  |  |
|   | Split array largest sum  | https://www.geeksforgeeks.org/problems/spiti-array-largest-sum-141634/12<br>page=2&category=Binary%20Search&sorfBy=submissions  | Best Tutorial 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                                       |  |  |
|   | Canacity to shin packages within D days  | https://www.geeksforgeeks.org/problems/capacity-to-ship-packages-within-  | Best Tutorial link - click to view                                       |  |  |
|   | koko eating bananas  | d-days/1?page=2&category=Binary%:20Search&sortBy=submissions<br>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<br>kth smallest pair distance   | 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<br>Best Tutorial link - click to view | Article link-click to view   |  |
|   | Ugly number II   | https://leetcode.com/problems/ugly-number-ii/   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Median of 2 sorted arrays Find smallest divisor given threshold  | Median of 2 Sorted Arrays of Different Sizes   Practice   GeeksforGeeks<br>Find the Smallest Divisor Given a Threshold - LeetCode   | Best Tutorial link - click to view<br>Best Tutorial link - click to view | Article link-click to view Article link-click to view  |  |
| Sorting - Algo  | Make sure to completely understand the algo thoroughly, and time & space complexity  |   |  |  |  |
| Beste   |  | https://www.geeksforgeeks.org/problems/bubble-sort/1?<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti  |  | Artist Carlotte Committee  |  |
| Basics  | Bubble sort(very basic sorting technique)  | cky_on_Article<br>https://www.geeksforgeeks.org/problems/selection-sort/1?  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Selection 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   |  |
|   | hooding out  | https://www.geeksforgeeks.org/problems/insertion-sort/1?<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti   | Deat Tutoric Control   | Autiato link alink to v  |  |
|   | Insertion sort   | cky_on_Article<br>https://www.geeksforgeeks.org/problems/merge-sort/1?  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Merge sort   | https://www.geesstorgeess.org/problems/merge-soru //<br>itm_source=geeks/forgeeks&itm_medium=Article&itm_campaign=bottom_sti<br>cky_on_Article  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Quick sort   | https://www.geeksforgeeks.org/problems/quick-sort/1?<br>itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti-<br>cky_on_Article  |  |  |  |
| LinkedList - Data structure   | QUITA SUIT   | LAY OF ARGE   | Best Tutorial link - click to view                                       | essad link-cick to view  |  |
| Basic patterns  | Completely understand how Node in linkedList is represented and then go ahead with the patterns<br>Create. Insert. Delete Operations in LL |   | Best Tutorial link - click to view<br>Best Tutorial link - click to view |  |  |
|   | Create, Insert, Delete Operations in LL. Search for an element in LL(Once create, insert is done, this should be easy)                     | https://www.geeksforgeeks.org/problems/search-in-linked-list-1664434326/1   | 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/reverse-a-linked-list/12<br>page=1&category=Linked%20List&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link - click to view   |  |
|   | Check if LL is a Palindrome(Once reversing is learnt, this should be easy)   | https://www.geeksforgeeks.org/problems/check-if-linked-list-is-<br>pallindrome/1?page=1&category=Linked%20List&sortBy=submissions   | 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-of-linked-list/12<br>page=2&category=Linked%20List&sortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
|   | Find the intersection point of Y LL(Once you know traversal, apply node logic to solve this)   | https://www.geeksforgeeks.org/problems/intersection-point-in-y-shapped-<br>linked-lists/1?page=1&category=Linked%20List&sortBy=submissions  | Best Tutorial link - click to view                                       |  |  |
|   |  | https://www.geeksforgeeks.org/problems/union-of-two-linked-list/12  |  |  |  |
|   | Union and Intersection of LL   | cky on Article<br>https://www.geeksforgeeks.org/problems/delete-without-head-pointer/12   | Best Tutorial link - click to view                                       |  |  |
|   | Delete without head pointer  | 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                                       | Article 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/1?page=2&category=Linked%20List&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link - click to view   |  |
| Long  | this)  | https://www.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of-<br>given-size/17page=1&category=Linked%20List&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link - click to view   |  |
| Loop  | 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/12  | Best Tutorial link - click to view                                       | APPLICATION OF THE PROPERTY OF |  |
|   | Find length of loop in LL  | page=18category=Linked%20List8sortBy=submissions<br>https://www.geeksforgeeks.org/problems/find-length-of-loop/12<br>page=18category=Linked%20List8difficulty=Easy8sortBy=submissions                 |  |  |  |
|   |  | https://www.geeksforgeeks.org/problems/find-the-first-node-of-loop-in-  | Best Tutorial link - click to view                                       |  |  |
|   | Find the starting point of loop  | linked-list170845/1<br>https://www.geeksforgeeks.org/problems/remove-loop-in-linked-list/12   | Best Tutorial link - click to view                                       |  |  |
| Sorting, Merging & Related  | Remove the loop  | page=1&category=Linked%20List&sortBy=submissions  | Best Tutorial link - click to view                                       | Article 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/12page=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  Merce k sorted LL (Merce two sorted is easy version of this gues, if you are finding it diff to come up            | 20List&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Merge k sorted LL(Merge two sorted is easy version of this ques, if you are finding it diff to come up 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                                       | Article link-click to view   |  |
|   | Merge sort in LL   | page=2&category=Linked%20List&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/quick-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-   |  |  |  |
|   |  | sorted-linked-list/1?page=1&category=Linked%<br>20List&difficulty=Easy&sortBy=submissions https://www.geeksforgeeks.<br>org/problems/remove-duplicates-from-an-unsorted-linked-list/12                |  |  |  |
|   | Remove occurence of duplicates in sorted & unsorted LL   | https://practice.geeksforgeeks.org/problems/segregate-even-and-odd-   | Best Tutorial link - click to view                                       |  |  |
| Arithmetic(Reversal & traversal - Once                                      | Seggregate even and odd nodes in LL  | nodes-in-a-linked-list5035/1  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| you learnt these, you can solve probs in this pattern)                      |  |   |  |  |  |
|   | Add 1 to a number represented as LL  | https://practice.geeksforgeeks.org/problems/add-1-to-a-number-<br>represented-as-linked-list/1  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Add 2 numbers represented as LL  | https://practice.geeksforgeeks.org/problems/add-two-numbers-represented-<br>by-linked-lists/1   | Best Tutorial link - click to view                                       |  |  |
|   |  | https://www.naakefornaake.org/probleme/subtraction.in.linkert.list/12   | Best Tutorial link - click to view                                       |  |  |
| Must solve other probs(Try to solve these probs on own, brute force atleast |  |   |  |  |  |
| you can come up for most of them after<br>solving above)                    |  |   |  |  |  |
|   | Rotate LL  | https://www.geeksforgeeks.org/problems/reorder-list/12<br>page=3&category=Linked%20List&cortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Flattening a LL(make sure to learn the efficient approach)   | https://www.geeksforgeeks.org/problems/flattening-a-linked-list170845/12<br>page=4&category=Linked%20List&sortBy=submissions  | Best Tutorial link - click to view                                       |  |  |
|   | Delete nodes having greater value on right   | https://practice.geeksforgeeks.org/problems/delete-nodes-having-greater-<br>yalue-on-right/1.   | Best Tutorial link - click to view                                       |  |  |
|   | Delete N nodes after M nodes   | https://www.geeksforgeeks.org/problems/delete-n-nodes-after-m-nodes-of-<br>g-linked-list/17page=3&category=Linked%20List&sortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
|   | Delete all occurence of node   |   | Best Tutorial link - click to view                                       |  |  |
|   | Clone a LL   | https://www.geeksforgeeks.org/problems/clone-a-linked-list-with-next-and-<br>random-pointer/17page=18.category=Linked%<br>20List&difficulty=Hard&sortBy=submissions                                   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   |  | https://www.geeksforgeeks.org/problems/length-of-longest-palindrome-in-   |  |  |  |
|   | Length of longest palindrome in LL<br>Learn the basics of circular LL  | linked-list/17page=2&category=Linked%<br>20List&difficulty=Medium&sortBy=submissions  | Best Tutorial link - click to view Best Tutorial link - click to view    |  |  |
| Double Linked List  |  |   |  |  |  |
|   | Learn the basic representation of the nodes in LL  | https://www.geeksforgeeks.org/problems/reverse-a-doubly-linked-list/12  | Best Tutorial link - click to view                                       |  |  |
|   | Insert, Delete, Reverse DLL  | https://www.geeksforgeeks.org/problems/reverse-a-opuniy-inkeo-use/1/<br>page=18.category=doubly-linked-ist&orfley=submissions<br>https://www.geeksforgeeks.org/problems/find-pairs-with-given-sum-in- | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   | Pairs with given sum in DLL  | https://www.geesstorgeess.org/problems/into-pairs-win-given-sum-in-<br>doubly-linked-list/17page=1&category=doubly-linked-<br>list&difficulty=Easy&sortBy=submissions                                 | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| Stack - Data structure  |  |   |  | _  |  |
| Basic   |  | https://www.geeksforgeeks.org/problems/implement-stack-using-array/12   |  |  |  |
|   | What is stack? Learn how to represent the data structure and working of it   | page=1&category=Stack&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/implement-two-stacks-in-an-  | Best Tutorial link - click to view                                       |  |  |
|   | Implement 2 stack using array  | array/12page=1&category=Stack&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/parenthesis-checker2744/12   | Best Tutorial link - click to view                                       |  |  |
|   | Check for balanced paranthesis   | page=1&category=Stack&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/get-minimum-element-from-  | Best Tutorial link - click to view                                       |  |  |
| Next greater element  | Get min from stack in O(1) space and time  | https://www.geexstorgeers.org/problems.ger-minimum-element-from-<br>stack/1?page=1&category=Stack&sortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| meat greater element  | Next greater element   | https://www.geeksforgeeks.org/problems/next-larger-element-<br>158711562011?page=1&category=Stack&sortBy=submissions  | Rest Tutorial Sale - Water and   | Article link eliek to view   |  |
|   | Next greater element Next greater element II   | 1587115820/1?page=1&category=Stack&sortBy=submissions<br>https://leetcode.com/problems/next-greater-element-ii/   | Best Tutorial link - click to view Best Tutorial link - click to view    | Article link-click to view   |  |
| Next smallest element(Once above pattern is covered, try to solve this on   |  |   |  |  |  |
| own)  |  | https://www.geeksforgeeks.org/problems/help-classmates141631/12   |  |  |  |
|   | Next smallest element on left  | itm_source=geeksforgeeks<br>https://www.codingninjas.com/studio/problems/next-smaller-  | Best Tutorial link - click to view                                       |  |  |
|   | Next smallest element on right Stock span problem(Implementation prob - Try to figure out the pattern from above next greater              | https://www.geeksforgeeks.org/problems/stock-span-problem-  | Best Tutorial link - click to view                                       |  |  |
|   | Stock span problem(implementation prob - Try to rigure out the pattern from above next greater and smaller)                                | https://www.geesstorgeess.org/problems/sstock.span-problems<br>1587115621/17page=1&category=Stack&strfBy=submissions<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  |  |  |  |
|   | Trapping rainwater  Maximum rectangular area on histogram(Once next greater and next smallest pattern is covered,                          | <u>cky_on_Article</u> <u>https://www.geeksforgeeks.org/problems/maximum-rectangular-area-in-a-</u>  | Best Tutorial link - click to view                                       |  |  |
|   | this can be solved easily)   | histogram-1587115620/1?page=1&category=Stack&sortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
|   | Max rectangle(Same as above, just a small twist)   | https://www.geeksforgeeks.org/problems/max-rectangle/1?<br>page=1&category=Stack&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|   |  |   |  |  |  |

| Expressions  |   | https://www.geeksforgeeks.org/problems/infix-to-postfix-1587115620/17  |  |  |  |
|--|---|--|--|--|--|
|  | Infix to postfix  | page=28category=Stack8sortBy=submissions<br>https://www.geeksforgeeks.org/problems/evaluation-of-postfix-  | Best Tutorial link - click to view                                       |  |  |
|  | Evaluation of postfix expression Prefix to postfix  | expression1735/17page=2&category=Stack&sortBy=submissions  | Best Tutorial link - click to view<br>Best Tutorial link - click to view |  |  |
|  | Arithmetic expression evaluation  | https://www.codingninjas.com/studio/problems/arithmetic-expression-<br>evaluation 1170517  | Best Tutorial link - click to view                                       |  |  |
| Reversing stack  | Parametric expression evaluation  |  |  | COLUMN TO SERVICE SERV |  |
|  | Insert at bottom of stack   | https://www.geeksforgeeks.org/problems/insert-an-element-at-the-bottom-of-<br>a-stack/1?page=4&category=Stack&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Reverse a stack   | https://www.geeksforgeeks.org/problems/reverse-a-stack/12<br>page=2&category=Stack&sortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Sort stack(Solving above two can give you hint for this)  | https://www.geeksforgeeks.org/problems/sort-a-stack/12<br>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   | https://www.geeksforgeeks.org/problems/the-celebrity-problem/12<br>page=1&category=Stack&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/restrictive-candy-crush=141631/12  | Best Tutorial link - click to view                                       |  |  |
|  | Restrictive candy crush   | page=28category=Stack8sortBy=submissions<br>https://www.geeksforgeeks.org/problems/count-the-reversals0401/12  | Best Tutorial link - click to view                                       |  |  |
| Queue - Data structure   | Count the reversals   | page=18category=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=1&category=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/17page=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/12<br>page=1&category=Queue&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Implement stack using queue(super imp)  | https://www.geeksforgeeks.org/problems/stack-using-two-queues/1?<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/12<br>page=1&category=Queue&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| Implementation probs   |   | https://www.geeksforgeeks.org/problems/circular-tour-1587115620/17   |  |  |  |
|  | Circular tour   | page=1&category=Queue&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/first-non-repeating-character-in-a-   | Best Tutorial link - click to view                                       |  |  |
|  | First non repeating char in stream  | stream1216/17page=1&category=Queue&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/reverse-first-k-elements-of-   | Best Tutorial link - click to view                                       |  |  |
|  | Reverse first k elements in queue   | queue/12page=1&category=Queue&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/tru-cache/12<br>page=1&category=Queue&sortBy=submissions  | Best Tutorial link - click to view                                       |  |  |
|  | LRU Cache(super imp)  | https://www.geeksforgeeks.org/problems/minimum-cost-of-ropes-  | Best Tutorial link - click to view                                       |  |  |
|  | Minimum cost of ropes   | 1587115620/1?page=18category=Queue&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/nearly-sorted-1587115620/1?<br>page=3&category=Arrays&difficulty=Medium  | Best Tutorial link - click to view                                       |  |  |
| Sliding Window - Technique   | Nearly sorted(Learn priority queue for sure)  |  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| (Dont skip this topic, I personally have been<br>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  |  |  |  |  |
| 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  | cky on Article   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Count distinct element in every window(Once you understoor handling window size fixed from above prob, this will be easy)                                     | https://www.geeksforgeeks.org/problems/count-distinct-elements-in-every-<br>window/1?page=1&category=sliding-window&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | First negative integer in every window of size k(Try to solve on own before looking for soln since  | https://www.geeksforgeeks.org/problems/first-negative-integer-in-every-<br>window-of-size-k3345/1?page=1&category=stiding-   |  |  |  |
|  | you did above topics too already  Maximum of all subarray of size k(Try to solve on own)  | window&sortBy=submissions https://www.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size-   | Best Tutorial link - click to view                                       |  |  |
|  |   | k3101/1?page=1&category=sliding-window&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/substrings-of-length-k-with-k-1-   | Best Tutorial link - click to view                                       |  |  |
|  | Count substring of length k with k-1 distinct elements  Maximum of minimum for every window(Imp)  | distinct-elements/17page=18.category=siding-window8sorfBy=submissions<br>https://www.geekstorgeeks.org/problems/maximum-of-minimum-for-every-<br>window-size3453/17page=18.category=siding-window8sorfBy=submissions   | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
| Variable sliding window(Each prob will<br>teach something in addition to the window so do  | Masomum or minimum for every window(imp)  | window-sizes-souri rpage=tacategory=siding-windowasonBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| teach something in addition to the window so do<br>solve everything)   |   | hitte-llassa naakefornaake orninohlameleuharrau with nivan eum.  |  |  |  |
|  | Subarray with given sum   | https://www.geeksforgeeks.org/problems/subarray-with-given-sum-<br>1587115621/17page=18.category=sliding-window8.sortBy=submissions<br>https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Longest subarray with given sum k(Same as above with slight modification)   | k/8809/17page=1&category=siding-window&sortBy=sub-missions<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   | 1587115621/1?page=1&category=sliding-window&sortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
|  | Smallest window of distinct elements  | https://www.geeksforgeeks.org/problems/smallest-distant-window3132/17<br>page=1&category=sliding-window&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/smallest-window-containing-0-1-   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Smallest window containing 0,1,2  | naps //www.geeksforgeeks.org/problems/smallest-window/consaning-ti-l-<br>and-2-170837/17page-2&category=sliding-window/scribly=submissions<br>https://www.geeksforgeeks.org/problems/smallest-window-in-a-string-  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Smallest window in string containing all chars of another string  | naps://www.geesstorgeess.org/propierns/mains-t-wnoow-in-a-string-<br>containing-all-the-characters-of-another-string-1587115621/12<br>page=1&category-sliding-window&sortBy-submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Length of longest substring   | https://www.geeksforgeeks.org/problems/length-of-the-longest-<br>substring3038/12page=1&category=stiding-window&sortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
|  | Largest subarray of 0s and 1s   | https://www.geeksforgeeks.org/problems/largest-subarray-of-0s-and-1s/12<br>page=1&category=sliding-window&sortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
|  | Count of anagram occurence(Super imp)   | https://www.geeksforgeeks.org/problems/count-occurences-of-<br>anagrams5839/17page=1&category=sliding-window&sortBy=submissions  | Best Tutorial link - click to view                                       |  |  |
|  | Max consecutive ones III Fruit into basket  | https://leetcode.com/problems/max-consecutive-ones-iii/<br>https://leetcode.com/problems/fruit-into-baskets  | Best Tutorial link - click to view Best Tutorial link - click to view    | Article link-click to view   |  |
|  | Count number of nice subarrays  | https://leetcode.com/problems/count-number-of-nice-subarrays/  | Best Tutorial link - click to view                                       |  |  |
|  | Longest repeating char replacement Minimum window substring   | https://leetcode.com/problems/longest-repeating-character-replacement<br>https://leetcode.com/problems/minimum-window-substring/description/   | Best Tutorial link - click to view<br>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                                       | Article link-click to view   |  |
| Trees - Data structure   | Subarray with k diff integers   | https://leetcode.com/problems/subarrays-with-k-different-integers/   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| Traversals   | Understand the basic of how tree data structure is represented  |  | Best Tutorial link - click to view                                       |  |  |
|  | PreOrder Traversal  | https://www.geeksforgeeks.org/problems/preorder-traversal/1?<br>page=1&category=Tree&sortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | InOrder Traversal   | https://www.geeksforgeeks.org/problems/inorder-traversal/12<br>page=2&category=Tree&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | PostOrder Traversal   | https://www.geeksforgeeks.org/problems/postorder-traversal/12<br>page=2&category=Tree&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Level Order Traversal   | https://www.geeksforgeeks.org/problems/level-order-traversal/1?<br>page=1&category=Tree&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Boundary Traversal(Once level traversal is learnt, this you can solve)  | https://www.geeksforgeeks.org/problems/boundary-traversal-of-binary-<br>tree/1?page=1&category=Tree&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Vertical Traversal(Once level traversal is learnt, this you can solve, fil extra logic is needed)   | https://www.geeksforgeeks.org/problems/print-a-binary-tree-in-vertical-<br>order/17page=1&category=Tree&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Top View of BT(Once you have mastered level traversal, this should be easy)   | https://www.geeksforgeeks.org/problems/top-view-of-binary-tree/12<br>page=1&category=Tree&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Bottom View of BT(Once you have mastered level traversal, this should be easy)  | https://www.geeksforgeeks.org/problems/bottom-view-of-binary-tree/12<br>page=1&category=Tree&sortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Left View of BT(Once you have mastered vertical traversal, this should be easy)   | https://www.geeksforgeeks.org/problems/left-view-of-binary-tree/1?<br>page=18category=Tree8sortBy=submissions<br>https://www.geeksforgeeks.org/problems/fight-view-of-binary-tree/1?   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Right View of BT(Once you have mastered vertical traversal, this should be easy)  | page=1&category=Tree&sortBy=submissions  | Best Tutorial link - click to view                                       |  |  |
| Basic and Easy patterns(Try to solve   | Diagonal Traversal  | https://www.geeksforgeeks.org/problems/diagonal-traversal-of-binary-<br>tree/1?page=38category=Tree&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| Basic and Easy patterns(Try to solve<br>these once you learnt traversals)  | Insert node in a tree   |  | Rest Tutorial link which to .  | Article link-clink to view   |  |
|  |   | https://www.geeksforgeeks.org/problems/height-of-binary-tree/17  | Best Tutorial link - click to view                                       |  |  |
|  | Height of the tree  Diameter of the tree  | page=1&category=Tree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/diameter-of-binary-tree/12<br>page=1&category=Tree&sortBy=submissions  | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
|  | Diameter of the tree  Check if 2 trees are identical  | page=1&categon=Tree&scriBy=submissions<br>https://www.geeksforgeeks.org/problems/determine-if-two-trees-are-<br>identical/1?page=1&category=Tree&scriBy=submissions  | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
|  | Check if 2 trees are identical Check if subtree   | identical/1?page=1&category=1ree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/check-if-subtree/12<br>page=2&category=1ree&sortBy=submissions   | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
|  | Check for balanced tree   | page=2&category= receasoriny=supmissions<br>https://www.geeksforgeeks.org/problems/check-for-balanced-tree/12<br>page=1&category= free&ortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
|  | Lowest common Ancestor in BT  | page=1 acategory=1 reeasorusy=suomssions https://www.geeksforgeeks.org/problemsflowest-common-ancestor-in-a- binary-tree/17page=1&category=Tree&sortfly=submissions  | Best Tutorial link - click to view                                       |  |  |
|  | Lowest common Ancestor in BT<br>Sum tree  | bmany-tree/17/page=18category=1ree8sorthy=submissions<br>https://www.geeksforgeeks.org/problems/sum-tree/12<br>page=18category=1ree8sortBy=submissions   | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
|  | Symmetric tree  | page= (acategory= free&sortsy=supmissions) https://www.geeksforgeeks.org/problems/symmetric-tree/12 page=2&category= free&sortSy=submissions   | Best Tutorial link - click to view                                       |  |  |
|  | Symmetric tree Mirror of a tree   | page=2acasegory= reeasorisy=suomissions<br>https://www.geeksforgeeks.org/problems/mirror-tree/12<br>page=1&category= free&ortBy=submissions  | Best Tutorial link - click to view                                       |  |  |
|  | Mirror or a tree Check if isomorphic  | page= (acategory= free&sortny=supmissions<br>https://www.geeksforgeeks.org/problems/check-if-tree-is-isomorphic/12<br>oaoe=2&category= free&sortBy=submissions   | Best Tutorial link - click to view                                       |  |  |
| Path and Distance  |   |  |  |  |  |
|  | Root to leaf paths  | https://www.geeksforgeeks.org/problems/root-to-leaf-paths/12<br>page=4&category=Tree&sortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Root to leaf path sum (Once the root to leaf path is solved, this should be easy)   | https://www.geeksforgeeks.org/problems/root-to-leaf-paths/12<br>page=4&category=Tree&sortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Maximum path sum from any node(Once the root to leaf path is solved, this should be easy)   | https://www.geeksforgeeks.org/problems/maximum-path-sum-from-any-<br>node/1?page=3&category=Tree&sortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | K Sum Paths (Once the root to leaf path is solved, this should be easy)   | https://www.geeksforgeeks.org/problems/k-sum-paths/12<br>page=3&category=Tree&sortBy=submissions   | Best Tutorial link - click to view                                       | Article link-click to view   |  |
|  | Nodes at given distance   | https://www.geeksforgeeks.org/problems/nodes-at-given-distance-in-binary-<br>tree/17page=3&category=Tree&sortBy=submissions  | Best Tutorial link - click to view                                       |  |  |
|  | Range sum of BST(Solving nodes at given distance, will make this easy)  | https://www.geeksforgeeks.org/problems/min-distance-between-two-given-   | Best Tutorial link - click to view                                       |  |  |
|  | Minimum distance between 2 nodes(Solving nodes at given distance, will make this easy)  | nodes-of-a-binary-tree/1?page=2&category=Tree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/maximum-difference-between-   | Best Tutorial link - click to view                                       |  |  |
|  |   |  |  | Article link-click to view   |  |
|  | Maximum distance between node and ancestor(Must solve though distance pattern is covered)  Min time to hum a tree(I Ising distance logic, this can be sovied) | node-and-its-ancestor/17page=3&category=Tree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/burning-tree/17<br>page=4&category=Tree-8cortByws-submissions  |  | Article link-click to view   |  |
| Binary Search Tree(Once the above  | Maximum distance between node and ancestor(Must solve though distance pattern is covered)  Min time to burn a tree(Using distance logic, this can be sovled)  | node-ano-dis-ancestor i rpage-sacrategory= trenscrinty=sumissions<br>tilips://www.gecksforgeeks.org/problems/burning-tree/12<br>page=44category=TreeAsortBy=submissions  | Best Tutorial link - click to view                                       | Article link-click to view   |  |
| Binary Search Tree(Once the above<br>patterns are covered, BST probs will<br>become easy, but make sure to learn<br>what BST is in general before starting |   | Doors after the intension I rasper Securing by Tendenting summaries that have been a secure to the securing securing the securing |  | Article link-click to view   |  |

|  | Insert a node in BST   | https://leetcode.com/problems/insert-into-a-binary-search-tree/   | Best Tutorial link - click to view   | Article link-click to view   |  |
|--|--|---|--|--|--|
|  | Search a value in BST(Learn efficient algo to do it, since this can be handled efficiently in BST 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-<br>tree/17page=58category=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/17<br>page=2&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  |  | https://www.geeksforgeeks.org/problems/check-for-bst/12   |  |  |  |
|  | Check for BST(Try solving probs in this pattern by yourself till LCA once above are solved)  | page=1&category=Tree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/find-the-closest-element-in-bst/12  | Best Tutorial link - click to view   |  |  |
|  | Find the closest element in BST  | page=3&category=Tree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/count-bst-nodes-that-lie-in-a-given-  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Count BST nodes in the given range   | 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/1?<br>page=48category=Tree&sortBv=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   |  |  |
|  |  | https://www.geeksforgeeks.org/problems/populate-inorder-successor-for-all-  |  |  |  |
|  | Populate inorder successor for all nodes   | nodes/1?page=5&category=Tree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/bst-to-greater-sum-tree/12  | Best Tutorial link - click to view   |  |  |
|  | BST to greater sum tree Delete given node from BST   | page=8&category=Tree&sortBy=submissions<br>https://ieetcode.com/problems/delete-node-in-a-bst/  | Best Tutorial link - click to view<br>Best Tutorial link - click to view   |  |  |
| Construct from given   | •  |   | DATE TOLONO HIN - CHEN TO FEW  | CHARLE REPORTED BY TALK  |  |
|  | Construct Binary Tree from Preorder and Inorder Traversal ( First understand the concept of how to derive at the solution, then start coding it by yourself)   | page=1&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Construct Binary Tree from Inorder and Postorder Traversal   | https://leetcode.com/problems/construct-binary-tree-from-inorder-and-<br>postorder-traversal/   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Construct BST from given preorder traversal  | https://www.geeksforgeeks.org/problems/construct-tree-from-preorder-<br>traversal/1?page=7&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   |  |  |
|  | Construct BT from parent array   | https://www.geeksforgeeks.org/problems/construct-binary-tree-from-parent-<br>array/17page=5&category=Tree&sortBy=submissions  | Best Tutorial link - click to view   |  |  |
| Subtree & Other must do tree probs   | Construct B I from parent array  | array/17page=pacategory=treeasorisy=submissions   | Best Tutorial 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/17page=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/1?   | Best Tutorial link - click to view   |  |  |
|  |  | https://www.geeksforgeeks.org/problems/maximum-sum-of-non-adjacent-   |  |  |  |
|  | Maximum sum of non adjacent nodes  | nodes/1?page=3&category=Tree&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/duplicate-subtrees/1?   | Best Tutorial link - click to view   |  |  |
|  | Duplicate subtree  | page=4&category=Tree&sortBy=submissions   | Best Tutorial link - click to view   |  |  |
| Desired the Control  | 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   | Article link-click to view   |  |
| Backtracking & Recursion<br>advanced - Technique   | 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  |   |  |  |  |
| Basic patterns and must solve(Each prob in this pattern will teach you   |  |   |  |  |  |
| something and also as you solve, you will start mastering it though initially it   |  |   |  |  |  |
| takes sometime)  | Understand the basics of backtracking and start solving  | https://www.geeksforgeeks.org/problems/permutations-of-a-given-   |  |  |  |
|  | Permutations of a string   | 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://eetcode.com/problems/permutations-ii<br>https://www.geeksforgeeks.org/problems/combination-sum-1587115620/12  | Best Tutorial link - click to view   |  |  |
|  | Combination sum II   | page=1&category=Backtracking&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Combination sum II(Once you solve combination I, you should be able to solve this and below 2 probs too easily)  | https://leetcode.com/problems/combination-sum-ii  | Best Tutorial link - click to view   |  |  |
|  | Combination sum III  | https://eetcode.com/problems/combination-sum-iii<br>https://www.geeksforgeeks.org/problems/rat-in-a-maze-problem/12   | Best Tutorial link - click to view   |  |  |
|  | Rat in maze(Once above probs are solved, you can do this easily)   | page=1&category=Backtracking&ortBy=submissions https://www.geeksforgeeks.org/problems/possible-words-from-phone-digits-   | Best Tutorial link - click to view   |  |  |
|  | Possible words from phone digits   | 1587115620/1?page=1&category=Backtracking&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Subsets  | https://www.geeksforgeeks.org/problems/subsets-1613027340/12<br>page=1&category=Backtracking&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Unique subset(Solving above, you will be able to solve this easily)  | https://www.geeksforgeeks.org/problems/subsets-1587115621/17<br>page=1&category=Backtracking&sortBy=submissions   | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | N-Queen(Super imp)   | https://www.geeksforgeeks.org/problems/n-queen-problem0315/12<br>page=1&category=Backtracking&crtBv=submissions   | Best Tutorial link - click to view   |  |  |
|  | N Queen II   | https://leetcode.com/problems/n-queens-ii   |  |  |  |
|  | Permutation with spaces  | https://www.geeksforgeeks.org/problems/permutation-with-spaces3627/12<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/1?page=1&category=Backtracking&sortBy=submissions  | Best Tutorial link - click to view   | Article link-click to view   |  |
|  | Generate IP address  | https://www.geeksforgeeks.org/problems/generate-ip-addresses/17<br>page=1&category=Backtracking&ortBv=submissions   | Best Tutorial link - click to view   |  |  |
|  |  | https://www.geeksforgeeks.org/problems/solve-the-sudoku-1587115821/12   |  |  |  |
|  | Solve the sudoku   | page=1&category=Backtracking&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/find-kth-permutation/12   | Best Tutorial link - click to view   |  |  |
|  | kth permutation  |   |  |  |  |
|  | No. permanent  | page=2&category=Backtracking&sortBy=submissions https://www.gaakeforpeake.org/problems/suproblems/s  | Best Tutorial link - click to view   | Peticic IIII Circle to VCW   |  |
|  | Word search  | https://www.geeksforgeeks.org/problems/word-search/12<br>page=3&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  Best Tutorial link - click to view   |  |  |
|  | Word search  | https://www.geeksforgeeks.org/problems/word-search/12.<br>pages/3&category=Graph&sortBy=submissions.<br>https://www.geeksforgeeks.org/problems/find-all-possible-palindromic-<br>partitions-of-a-string/12  | Best Tutorial link - click to view   | Article link-click to view   |  |
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| Traversals & Basic  Connected component(After traversal, this will be easy to solve)  Bipartite                              | Word search Patindrome partition of string Decode the string Letter case permutation Search of string Understand the string Word boggle Largest number in it swaps Partition array to it subsets Beautiful the string of the subsets Beautiful the string of the subsets Understand how graph is represented? BFS Traversal(Super imp and basic) DFS Traversal(Super imp and basic) DFS Traversal(Super imp and basic) DFS Traversal(Super imp and basic) Detect cycle in Understed graph Detect Regative cycle in graph Center (Syel in Partition 1) Detect on Understand path Detect Regative cycle in graph Connected component(Once you master this , all the below using this pattern will become super carry) Number of Provinces(Learn how to solve this proto and solve the below in this pattern) Number of Stainties Number of Stainties Number of Stainties Beautiful graph Modouluring Find shortest path in Un(Choca you learn this, by to solve other proba in this pattern by yourself) Find shortest path in DAG Dijkstra July Shortest path source to destiny Find if path exists   | Inflant Javanous peerst Grogories conjunctions seemed in section 12 countries of the peerst Group of the p  | Best Tutorial Irik - click to view Best Tutorial Ir | Action link-click to view  |  |
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|  |  | https://leetcode.com/problems/course-schedule-ii<br>https://www.geeksforgeeks.org/problems/eventual-safe-states/12   | Best Tutorial link - click to view  |  |  |
|  | entual safe states   | page=2&category=Graph&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/alien-dictionary/12   | Best Tutorial link - click to view  |  |  |
| Minimum Spanning Tree  | en dictionary  | page=1&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
| Minin<br>by yo   | nimum spanning tree(Once you learn this, then you will be able to solve the probs in this pattern 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   |  |
| Krusi  | uskals algo  | https://www.codingninjas.com/studio/problems/code-kruskal-s-<br>algorithm_6320   | Best Tutorial link - click to view  | Article link-click to view   |  |
| Minin  | nimum cost to connect cities   | https://leetcode.com/problems/connecting-cities-with-minimum-cost<br>https://leetcode.com/problems/min-cost-to-connect-all-points/   | Best Tutorial link - click to view<br>Best Tutorial link - click to view  | Article link-click to view   |  |
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| Numi   | mber of Island II  | page=5&category=Graph&sortBy=submissions<br>https://leetcode.com/problems/number-of-islands-ii/  | Best Tutorial link - click to view  | Article link-click to view   |  |
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| Artic  | iculation point  | https://www.geeksforgeeks.org/problems/articulation-point-1/12<br>page=3&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
| Critic   | tical connection   | https://www.geeksforgeeks.org/problems/critical-connections/1?<br>page=5&category=Graph&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|  | saraja algo (Strongly connected component algo)  | https://www.geeksforgeeks.org/problems/strongly-connected-components-<br>kosarajus-algo/1?page=2&category=Graph&sortBy=submissions   | Best Tutorial link - click to view<br>Best Tutorial link - click to view  | Article link-click to view Article link-click to view  |  |
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| Dynamic Programming - to kn  | is super crucial topic and very commonly asked in many interviews!! One major thing you need<br>know is, dont start with tabulation approach directly, thats wrong way to learn DP. First find the<br>upon using recursion, then memoization and then finally tabulation and space reduction in  |  |   |  |  |
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| Court House House De Grid DP Court Minin Max Manin Court Partit Minin Court Manin Co | unt way to reach nith stair(Order matters)  unt way to reach nith stair(Order matters)  unt way to reach nith stair(Order deen't matter)  user robber il  unt paths - grid  que paths - grid  que paths - grid  que paths - grid  unt all possible paths with condition(You can solve this by yourself once above two are solved)  immum path sum in in grid  s path sum  more paths with k coins  immum path sum in triangular grid  more of paths with k coins  immum paths sum in triangular grid  minum telling path sum il  best sum problem  unt subset with given sum k  striken equal subset sum(Try to do it on own after solving above two, just a small trick)  immum sum pathsion  unt partition with given diff  (Krappack  in change  of nuther of coins  d cutting  get sum  immum col of ill given weight in bag(Solving the above probs in this pattern will make this super yr)  papack with duplication items  nigest increasing subsequence  in (orgest increasing subsequence)  ent (orgest increasing subsequence)  ent orgest subsequence(Solve on own, definitely you can do it note the above two are solved)  great string chain in creasing subsequence  in of longest increasing subsequence   | 15021 1505/11 Transmit Alexandron Virtuariah, Service anamakan disebut haringan disebut har           | Best Tutorial link - click to view  Best Tutorial link - click to | Article link-click to view   |  |
| Court  Plous  De on subsequence  Part  Main  Max  Num  Minim  Num  Minim  Num  Minim  Num  Minim  Num  Minim  Num  Minim  Num  Num  Minim  Num  Minim  Num  Num  Minim  Num  Num  Num  Num  Num  Num  Num  N   | und must on those  und way to reach rish stair(Order matters)  und way to reach rish stair(Order doesn't matter)  use nobber use nobber is  und paths - grid  que paths - grid  que paths - grid  que paths - grid  que paths - grid  und all possible paths with condition(You can solve this by yourself once above two are solved)  immun path sum in grid  und path sum in grid  wher of paths with k coins  immun fallimpath sum in indigent and immun fallimpath sum immun fallimpath sum it  best sum possible  best sum groblem  und solved with given sum k  trison equal subsets sum(Try to do it on own after solving above two, just a small brick)  virium sum partition  und partition with given diff  Knappack  immun cost to fill given weight in bag(Gloving the above probs in this pattern will make this super yo)  appeal committed in the path of the p | 15071 1566/17 houses Abenteuron Virtuarini, Service annual August Abenteuron Schrossmith (15071 1566/17 houses Abenteuron Schrossmith (15071 1566/17 houses Abenteuron Chromatica) 15071 1566/17 houses Abenteuron Chromatica (15071 1566/17 houses Abenteuron Chromatica) 15071 1566/17 houses Abenteuron Chromatica (15071 1566/17 houses Abenteuron Chromatica) 15071 1566/17 houses Abenteuron Chromatica (15071 1566/17 houses Abenteuron Chromatica) 15071 1566/17 1566/           | Best Tutorial link - click to view  Best Tutorial link - click to | Acticle link-click to view Acticle link-click to |  |
| Court House House Place Court Minin Maxix Minin Minin DP on subsequence  Subs Court Minin  | unt num of hopes  unt way to reach rith stair(Order matters)  unt way to reach rith stair(Order matters)  unt way to reach rith stair(Order deen't matter)  user robber il  unt paths - grid  que paths - grid  paths - grid  que pa | 15021 1556/11 Transmit Alexandron Shrantinish  The Community Alexandron Shrantinish  15021 1556/11 Transmit Alexandron  1           | Beet Tutorial link - click to view  | Article link-click to view  |  |
| Court House Poor a subsequence  Poor a subsequence  Poor increasing subsequence  Long Poor n strings(Using Longest common subsequence pattern)  Long Sopher Long S | unt way to reach rith stair(Order matters)  unt way to reach rith stair(Order matters)  unt way to reach rith stair(Order matters)  unt way to reach rith stair(Order desert's matter)  user robber il  unt paths - grid  que paths is min stair grid  insum path sum in in grid  insum path sum in in grid  insum path sum in in stangular grid  order of paths with coins  insum thating path sum il  beted sum problem  unt subset with given sum it  files or paths with coins  insum thating path sum il  files or paths with coins  unt subset with given sum it  files or paths with given sum in the sum in the paths with make this super  great to remain guidequence (one or un, definitely jour and of a one the above two or solved)  regist in or great sum grading subsequence  longest increasing subsequence (one you learn this pathern, all probe under this pathern can be  reported to remain subsequence(One you learn this pathern, all probe under this pathern can be  red by yourseth)  red or paths with condition the sum in the subsequence (one by yourseth)  red or paths with condition the subsequence (one you learn this pathern, all probe under this pathern can be  red to paths with a condition the sum of the paths with red to path the standard or path the standard or paths with a condition  | 15021 1505/11 Transmit Alexandron Virtuariah, Service annumbraturiah service annumbraturi ser           | Best Tutorial link - click to view  Best Tutorial link - click to | Article link-click to view   |  |

|   |  | https://www.geeksforgeeks.org/problems/minimum-number-of-deletions-  |   |  |  |
|---|--|--|---|--|--|
|   | Min num of deletions and insertions to make string s1 equal to s2  | and-insertions0209/12nane=4&category=Dynamic%  | Best Tutorial link - click to view  |  |  |
|   | Min num or deletions and insertions to make string s I 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&sortRv=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
|   |  | https://www.geeksforgeeks.org/problems/longest-common-substring1452/12<br>page=1&category=Dynamic%20Programming&sortBy=submissions   | Best Tutorial link - click to view  |  |  |
|   | Longest common substring/subarray  | page=1&category=Dynamic%2DProgramming&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/longest-palindrome-in-a-  | Best Tutorial link - click to view  | Article link-click to view   |  |
|   | Longest palindromic substring  | string3411/17page=1&category=Dynamic%<br>20Programming&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|   |  | https://www.geeksforgeeks.org/problems/longest-repeating-<br>subsequence2004/17page=2&category=Dynamic%  |   |  |  |
|   | Longest repeating subsequence  | subsequence2004/1?page=2&category=Dynamic%<br>20Programming&status=solved&sortBy=submissions   | Best Tutorial link - click to view  | Article link-click to view   |  |
| DP on string  |  |  |   |  |  |
|   | 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  | Article link-click to view   |  |
|   |  | https://www.geeksforgeeks.org/problems/distinct-occurrences/17<br>page=3&category=Dvnamic%   |   |  |  |
|   | Distinct occurence   | 20Programming&status=solved&sortBv=submissions   | Best Tutorial link - click to view  |  |  |
|   | Wildcard pattern matching  | https://www.geeksforgeeks.org/problems/wildcard-pattern-matching/12<br>page=4&category=Dynamic%20Programming&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|   | Longest valid parentheses  | https://www.geeksforgeeks.org/problems/longest-valid-parentheses5657/12<br>page=3&category=Dynamic%20Programming&sortBy=submissions  | Best Tutorial link - click to view  |  |  |
|   |  | https://www.geeksforgeeks.org/problems/word-break1352/12   |   |  |  |
|   | Word break   | page=3&category=Dynamic%20Programming&sortBy=submissions<br>https://www.geeksforgeeks.org/problems/word-break-part-23249/17  | Best Tutorial 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-wrap1648/1?<br>page=4&category=Dynamic%20Programming&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|   | Interleaved strings  | https://www.geeksforgeeks.org/problems/interleaved-strings/12<br>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   |  |  |   |  |  |
| interview too, so dont miss any ques<br>from this pattern)  |  |  |   |  |  |
|   |  | https://leetcode.com/problems/best-time-to-buy-and-sell-stock/   | Best Tutorial 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<br>Best time to buy and sell stock III  | https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/<br>https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iii/  | Best Tutorial link - click to view Best Tutorial link - click to view   |  |  |
|   | Best time to buy and sell stock IV   | https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iv/  | Best Tutorial link - click to view  | Article link-click to view   |  |
|   | Best time to buy and sell stock with cooldown  | https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-<br>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  |  |  |
| DP on partition and MCM   |  |  | TOTAL TOTAL STATE OF THE STATE   |  |  |
|   | Matrix chain multiplication(Quite tricky pattern, every prob is diff and teaches something so do solve all)  | https://www.geeksforgeeks.org/problems/matrix-chain-multiplication0303/17<br>page=2&category=Dynamic%20Programming&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|   | Minimum cost to cut stick  | https://leetcode.com/problems/minimum-cost-to-cut-a-stick/   | Best Tutorial 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-clink to view   |  |
|   |  | page=sacategory=1yminic.szcrrog-arimingsonity-satemaskons<br>https://www.geeksforgeeks.org/problems/boolean-parenthesization5810/12<br>page=3&category=1ymamic/s20Programming&sonBy=submissions  | Best Tutorial link - click to view  |  |  |
|   |  | https://www.geeksforgeeks.org/problems/palindromic-patitioning4845/1?  |   |  |  |
|   | Palindrom partitioning   | page=2&category=Dynamic%20Programming&sortBy=submissions   | Best Tutorial link - click to view  |  |  |
|   | Partition array for max sum  | https://eetcode.com/problems/partition-array-for-maximum-sum/<br>https://www.geeksforgeeks.org/problems/max-rectangle/12   | Best Tutorial link - click to view  |  |  |
|   | Max rectangles area with all 1s  | page=3&category=Dynamic%20Programming&sortBy=submissions   | Best Tutorial link - click to view<br>Best Tutorial link - click to view  | Article link-click to view   |  |
| Heaps - Data structure  | Count square submatrices   | https://leetcode.com/problems/count-square-submatrices-with-all-ones/  | pest lutorial link - click to view  | Audice link-click to view  |  |
| Basic patterns  |  |  |   |  |  |
|   | What is heap? Understand the data structure Min heap implementation  | Min Hean Implementation - Coding Ninias  | Best Tutorial link - click to view<br>Best Tutorial link - click to view  |  |  |
|   | Min heap implementation  Max heap implementation   | Min Heap Implementation - Coding Ninjas<br>https://www.gatevidyalay.com/tag/max-heap-questions/  | Best Tutorial link - click to view  Best Tutorial link - click to view  |  |  |
|   | Convert min heap to max heap   | https://www.geeksforgeeks.org/problems/convert-min-heap-to-max-heap-   | Best Tutorial link - click to view  |  |  |
| Top k pattern   | Convert min neap to max neap   | 1006385109/1   | Best Tutorial link - Click to View  | Article link-click to view   |  |
|   | kth larnest in array   | https://www.geeksforgeeks.org/problems/k-largest-elements4208/12<br>page=1&category=Heap&sortBy=submissions  | Best Tutorial link - click to view  | Autiata tiak atlah ta ulaur  |  |
|   | kth smallest in array  | page= racategory=reapasor toy=submissions  | Best Tutorial 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 Best Tutorial link - click to view   | Article 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  Article link-click to view   |  |
|   |  | https://leetcode.com/problems/rearrange-string-k-distance-apart  | Best Tutorial link - click to view  | Article 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  | Autiala liak aliak ta viaw   |  |
|   | 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://eetcode.com/problems/find-k-pairs-with-smallest-sums/   | Best Tutorial link - click to view  Best Tutorial link - click to view  | Article link-click to view  Article link-click to view   |  |
|   | k smallest nums in M sorted list   |  | Best Tutorial link - click to view  |  |  |
| Two heaps pattern   |  | hilles//www.gooksformenko.gosforehkomalford.modfor in a stroom   |   |  |  |
|   | Find median from data stream   | https://www.geeksforgeeks.org/problems/find-median-in-a-stream-<br>1587115620/17page=1&category=Heap&sortBy=submissions  | Best Tutorial link - click to view  | Article link-click to view   |  |
|   | Sliding window median Maximum capital/IPO  | https://eetcode.com/problems/siding-window-median/<br>https://eetcode.com/problems/ipo/  | Best Tutorial link - click to view  Best Tutorial link - click to view  |  |  |
| Minimum number pattern  | Maximum Capitalir-O  | IMPS.//eecode.comproblemsipor  | Dest rutorial link - Click to view  | Atticle link-click to view   |  |
|   | Minimum cost to connect ropes  | https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes-<br>1587115820/1   | Best Tutorial link - click to view  | Article link-click to view   |  |
|   | Meeting room II  | https://leetcode.com/problems/meeting-rooms-ii   | 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/  |   |  |  |
|   | Minimum num of CPU   | https://lestende.com/problems/test/.cok - * * * * *  | Best Tutorial link - click to view  |  |  |
|   | Minimum num of refueling stops   | https://eetcode.com/problems/task-scheduler/<br>https://eetcode.com/problems/minimum-number-of-refueling-stops/  | Best Tutorial link - click to view  | Article link-click to view   |  |
| Trie - Data structure   | Minimum num of refueling stops   |  |   | Article link-click to view   |  |
| Trie - Data structure Basic and must solve  |  | https://leetcode.com/problems/minimum-number-of-refueling-stops/   | Best Tutorial link - click to view Best Tutorial link - click to view   | Article link-click to view<br>Article link-click to view   |  |
|   | Minimum rum of refueling stops Implement Trie from scratch   | https://ketcode.com/problems/minimum-number-of-refueling-stops/<br>https://www.codingninjas.com/studio/problems/implement-trie_631356  | Best Tutorial link - click to view  | Article link-click to view<br>Article link-click to view   |  |
|   |  | https://leetcode.com/problems/minimum-number-of-refueling-stops/   | 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   |  |
|   | Implement Trie from scratch  | https://keekcode.com/problems/innimum-number-of-refueling-stops/<br>https://keekcode.com/problems/innimum-number-of-refueling-stops/<br>https://keekcode/innimia.com/haked-problems/innimiament-fair_6115197<br>https://keekcode.com/problems/innimiament-fair_61151977<br>dds_cot_Admin_innimiament-of-refueling-innimiament-of-refuelin   | 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  Article link-click to view  |  |
|   | Implement Trie from scratch  Word break (Do solve if using trie, though you had solved this already)   | https://leekcode.com/problems/ininimum-number-of-refuelling-stops/<br>https://www.codinominas.com/studioproblems/implement-fire-6-313586<br>https://www.codinominas.com/studioproblems/implement-fire-6-313586<br>https://www.paekskingseissk.nim.mediums-fidicisak/m.camapioproblems_stops-<br>day.com/strain-fire-problems-fire-fire-fire-fire-fire-fire-fire-fire   | Best Tutorial link - click to view  Best Tutorial link - click to view  Best Tutorial link - click to view  Rest 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  |  |
|   | Implement Trie from scratch  Word break (Do solve if using trie, though you had solved this already)   | thas Mentodo compositematiminum number of refueling stood.  These Inventodinarinas commissionium between department site. 631355  Thisse Inventodinarinas commissionium between department site. 631355  Thisse Inventodinarinas commissionium department site. 1631172  Thisse Inventodinarinas commissionium department department commissionium department of the site of t           | Best Tutorial link - click to view  Best Tutorial link - click to view  Best Tutorial link - click to view  Rest 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  |  |
|   | Implement Trie from scratch  Word break (Do solve it using trie, though you had solved this already)  Longest string with all prefixes   | Intel Medicade com juroliems liminimum-number of refueling atopal.  Itims //inwa codiminists comhaludojaroblems/implement bir. 631356  Ithis //inwa codiminists comhaludojaroblems/implement bir. 631356  Ithis //inwa padektopesk von juroliems/south-treak hir. 14133177  cky. cn. Aller of the complete state of the codimination o           | 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  |  |
|   | Implement Trie from scratch  Word break (Do solve it using trie, though you had solved this already)  Longest string with all prefues  Maximum XOR of two numbers in array  Unique rows in boolean matrix  | Intel Medicade com juroliems liminimum number of refuelling atopal.  Intities //www.codiminists.com/shudojuroblems/finalement int. 631356  Intities //www.codiminists.com/shudojuroblems/finalement int. 631356  Intities //www.codiminists.com/shudojuroblems/finalement int. 631357  Cody, cod, Additional code of c           | Best Tutorial link - click to view<br>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 Article link-click to view  Article link-click to view  Article link-click to view  Article link-click to view   |  |
| Basic and must solve  | Implement Trie from scratch  Word break (Do solve it using tire, though you had solved this already)  Longest string with all prefixes  Maximum XOR of two numbers in array  Unique rows in boolean matrix  Prefix match with other strings  | https://leetloode.com/problems/innimum-number-of-refueling-stopal https://www.codingorisias.com/stadio/problems/inniement-sire_6.231356 https://www.codingorisias.com/stadio/problems/inniement-sire_6.231356 https://www.codingorisias.com/stadio/problems/inniement-sire_6.231356 https://www.codingorisias.com/stadio/problems/inniement-sire_6.24133117 https://www.codingorisias.com/stadio/managagenerotom/stadio/stadio-sire_sire_6.231356 https://www.codingorisias.com/stadio/stadio-sire_sire_fuelingorisias.com/stadio-sire_fuelingo           | Best Tutorial link - click to view<br>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 Article link-click to view  Article link-click to view  Article link-click to view  Article link-click to view   |  |
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| String  Must solve and Algos specific to string  Must solve and Algos specific to string  There are couple of more topics, bit marcheckout this for bit tricks - https://leetc.           | Implement Trie from scratich  Word break (Do solve it using trie, though you had solved this already)  Longest dring with all prefere  Maximum XOR of two numbers in array  Unique rows in bodean matrix  Prefix match with other strings  Implement Albi  Implement Albi  Implement Albi  Round and say  Minimum bracket reversals  Rabin karp algo(Pattern searching)  KIAP algo (Longest prefix sulfix, super imp, this was infact asked in one of my interview)  Beyor moral agin (Pattern searching)  KIAP algo (Longest prefix sulfix, super imp)  Longest happy prefix  Romove all adjacent duplicates  Hashing in string  Prefix all analysing  2. Function  Strokest palandrone  Circle of sings  Roman numerals to decimals  singulation, segment trees and AVIL trees which has timited number of probs, so do check that or dock contributious all general discussions 10.73221/All-about-Bitwise-Operations-Bitginner-Intermed-Interned-Intermed-Inte | https://www.codinormiss.com/subdis/reblems/mether of reflucting-stood/ https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-fide-fide-fide-fide-fide-fide-fide  | Best Tutorial link - click to view<br>Rest Tutorial link - click to view<br>Best Tutorial link - click to | Addise Inst-disk to voew<br>Addise Inst-disk to view<br>Addise Inst-disk t       |  |
| String  String  Must solve and Algos specific to string  There are couple of more topics, bit mar Checkout this for bit tricks - hitps://leet.  | Implement Tire from scratch  Word break (Do solve it using tire, though you had solved this already)  Longest string with all prefaces  Maximum XXR of two numbers in array  Unique rose in bookean marks  Perfect, match with other strings  Most of the imp problems in strings involves diff sectiniques, algos which are already occaved, in this section, we will focus on string specific imp problems and allegos  Implement Abi  Count and say  Minimum brancket reversals  Rabbi karp algo() Pattern searching, super imp, this was infact asked in one of my interview)  Boyer moor algo (Pattern searching)  ROP algo (Longest perfec sulfs, super imp). Every control of the problems of all problems and algority  Roper moor algo (Pattern searching)  ROP algo (Longest perfec sulfs, super imp). Every control of the problems and algority  Roper moor algo (Pattern searching)  ROP algo (Longest perfec sulfs, super imp).  Solver most algo (Pattern searching)  ROP algo (Longest perfec sulfs, super imp)  Congret indep prefec.  Solver most algority  2. Function  Shortest paindrome  Corticle of strings  Roman numerals to decimate  Siguilation, segment frees and AVL trees which has limited number of probs, so do check that o code comities case signment discussion 107/32/1/AL about Bitwise Operations Segment intermed.   | https://www.codinormiss.com/subdis/reblems/mether of reflucting-stood/ https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-fide-fide-fide-fide-fide-fide-fide  | Best Tutorial link - click to view<br>Rest Tutorial link - click to view<br>Best Tutorial link - click to | Addise Inst-disk to voew<br>Addise Inst-disk to view<br>Addise Inst-disk t       |  |
| String  String  Must solve and Algos specific to string  Must solve and Algos specific to string  There are couple of more topics, bit man  Checkout this for bit tricks - https://incet. | Implement Trie from scratich  Word break (Do solve it using trie, though you had solved this already)  Longed talking with all prefere  Maximum XOR of two numbers in array  Unique rows in bodean matrix.  Prefer and that with other strings.  Implement Aloi  Count and say  Implement Aloi  Replace the strings already in the string specific lang probs and algoe  Implement Aloi  Replace that a string specific lang probs and algoe  Implement Aloi  Replace that the strings array in the string specific lang probs and algoe  Implement Aloi  Replace the string specific lang probs and algoe  Implement Aloi  Replace that the strings of the string specific lang probs and algoe  Replace the string specific language in the strings and string specific language in the strings of the strings of the strings of the strings and strings are strings.  Remove all adjacent duplicates  Healthing in strings  Prefer all analogues  2. Function  Stronger analogues  Circle of strings  Roman numerals to decimals  supulation, segment trees and AVIL trees which has limited number of probs, so do check that of outcomerishers algorithms degrees of the strings of the string | https://www.codinormiss.com/subdis/reblems/mether of reflucting-stood/ https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-6-31158 https://www.codinormiss.com/subdis/reblems/metherset-fide-fide-fide-fide-fide-fide-fide-fide  | Best Tutorial link - click to view<br>Rest Tutorial link - click to view<br>Best Tutorial link - click to | Addise Inst-disk to voew<br>Addise Inst-disk to view<br>Addise Inst-disk t       |  |