Curious freaks CODING SHEET by Nandhini
Checkout this video to understand efficient way to use this sheet - https://youtu.be/ALpP62Fob/Q
Youtube Channel - https://www.youtube.com/Bourlousfreaks.
Lets use 8FCCodingSheet at go behare with friends on social media - https://www.instagram.com/its\_me\_nandyy
Connect with me on Linkedin - https://www.linkedin.com/inhandhini-raje-8871b4f43/
Only sheet you need to get placed in super high paying companies including google, amazon, salesforce, microsoft, adobe, etc
Solving time-Realy Problems - 150 minis
Solving time-Realy Problems - 150 minis
Solving time-Itary problems - At max 45mins - 50mins

Imp Note: Its not necessary that you know a topic, so for every topic you have here, first understand the basics of the topic, then for every pattern, you can learn the first prob in that pattern and then try solving other probs in that pattern yourself.

Imp Note: Its not necessary that you	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	probs in that pattern yourself	f.	
TOPIC	Problem	Problem link	Solution Tutorial	Solution Article	Solved	Notes
Basics Beginners basic math probs						
, , , , , , , , , , , , , , , , , , , ,	Find even or odd	https://practice.geeksforgeeks.org/problems/odd-or-even3618/1. https://www.geeksforgeeks.org/problems/find-last-digit-of-ab-for-large-	Best Tutorial 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)	numbers1936/1	Best Tutorial link - click to view			
	Reverse a number(Try thinking how you can use above logic in solving this)	https://practice.geeksforgeeks.org/problems/count-digits5716/1 https://www.geeksforgeeks.org/problems/reverse-digit0316/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view		
	Find power of a number GCD	https://www.geeksforgeeks.org/problems/power-of-numbers-1587115620/1 https://practice.geeksforgeeks.org/problems/gcd-of-two-numbers3459/1	Best Tutorial link - click to view Best Tutorial link - click to view			
	Print all divisors of a number	https://www.codingninjas.com/studio/problems/print-all-divisors-of-a- number_1184188	Best Tutorial link - click to view			
	Prime number(Try solving by yourself)	https://practice.geeksforgeeks.org/problems/prime-number2314/1 https://www.geeksforgeeks.org/problems/armstrong-numbers2727/1	Best Tutorial link - click to view	Article 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 this by yourself)	https://practice.geeksforgeeks.org/problems/palindrome0746/1	Best Tutorial link - click to view  Best Tutorial link - click to view			
	Square root of a number(Try to first figure out algo to solve this)	https://www.geeksforgeeks.org/problems/square-root/1	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	https://practice.geeksforgeeks.org/problems/perfect-numbers3207/1	Best Tutorial link - click to view	Article link-click to view		
Array - Data structure	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 struture moving forward, make sure to visually note down and understand how it is represented					
Basics with traversal	What is an array? May is it represented?		Best Tutorial link - click to view	Article link-click to view		
	Find the maximum and minimum element in array(After solving the search , you can solve all probs in this basics by yourself)	element-in-an-array4428/1	Best Tutorial link - click to view	Article link-click to view		
	Find third largest element in array  Search an element in array(Understand how to traverse through the array and how to access the	https://practice.geeksforgeeks.org/problems/lhird-largest-element/1 https://www.geeksforgeeks.org/problems/search-an-element-in-an-array-	Best Tutorial link - click to view			
	elements) Find missing number in array	<u>1587115621/1</u>	Best Tutorial link - click to view Best Tutorial link - click to view			
	Find repeating number in array		Best Tutorial link - click to view	COURT HIS CITE IN THE		
	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- 2s4231/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	solved, definitely learn the optimal algo)	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article https://www.geeksforgeeks.org/problems/check-if-two-arrays-are-equal-or-	Best Tutorial link - click to view	Article link-click to view		
		npt3847/12 itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti				
	Check if two arrays are equal or not	cky_on_Article https://www.geeksforgeeks.org/oroblems/cyclically-rotate-an-array-by-	Best Tutorial link - click to view	Article link-click to view		
	Datata the array by 1	cne2614/12 itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti	Best Tutorial link - click to view	Audialo link office to view		
	Rotate the array by 1 Rotate the array by k	<u>sky_on_Article</u> <u>https://www.codingninjas.com/studio/problems/rotate-array_1230543</u>	Best Tutorial link - click to view Best Tutorial link - click to view			
	Array subset of another array	https://www.geeksforgeeks.org/problems/array-subset-of-another- array2317/1	Best Tutorial link - click to view			
	Learn what is map and how its represented before moving forward	https://practice.geeksforgeeks.org/problems/frequency-of-array-elements-	Best Tutorial 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		
Two pointer(This is very imp pattern, not just for these probs but very commonly you can use this technique)	Just like search, sort, this is also imp technique to learn					
	Cod activate above and	https://www.geeksforgeeks.org/problems/key-pair5616/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	Ones Translation - Process	Audiata fint affat		
	Find pair with given sum	cky on Article https://www.geeksforgeeks.org/problems/triplet-sum-in-array- 1587115621/12	Best Tutorial link - click to view	exacte link-click to view		
	3 Sum	1587115621/12 ilm_source=peeksforgeeks&itm_medium=Article&itm_campaign=boltom_sti- ckv_on_Article	Best Tutorial link - click to view	Article link-click to		
	4 Sum	https://leetcode.com/problems/4sum/	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. Count the triplets   Practice   GeeksforGeeks	Best Tutorial link - click to view 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-arrays/3538/1	Best Tutorial link - click to view			
		https://www.geeksforgeeks.org/problems/intersection-of-two-arrays2404/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	Intersection of two arrays	<u>cky_on_Article</u> <u>https://www.geeksforgeeks.org/problems/remove-duplicate-elements-from-</u>	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 not always you will have pointers at start and end)	sorted-array/12 itm_source=peeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti cky_on_Article	Best Tutorial link - click to view	Article link click to		
	not aways you will have pointers at start and end)	https://www.geeksforgeeks.org/problems/k-th-element-of-two-sorted-	Best Tutorial link - click to view	Article link-click to view		
	kth element of 2 sorted arrays	array1317/17; itm_source=peeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky_on_Article	Best Tutorial link - click to view	Article link-click to view		
	number of 2 acres army	https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-	DEST TOURS HIM - CHOK TO VICE	COURT HIS CICK IN TAX		
	Length of longest subarray with sum k	itm_source=geeksforgeeks&itm_medium=article&itm_campaign=bottom_sti- cky_on_article	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/trapping-rain-water- 1587115621/1?				
	Trapping rain water	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti_ckv_on_Article	Best Tutorial link - click to view	Article link-click to view		
Must Solve	Majority element	https://leetcode.com/problems/majority-element/	Best Tutorial link - click to view	Article link-click to view		
	Kadane's algo(super imp)	https://practice.geeksforgeeks.org/problems/kadanes-algorithm- 1587115620/1	Best Tutorial link - click to view	Article link-click to view		
	Count inversions	https://practice.geeksforgeeks.org/problems/inversion-of-array- 1587115620/1	Best Tutorial link - click to view			
	Merge intervals	https://leetcode.com/problems/merge-intervals/ https://practice.geeksforgeeks.org/problems/maximum-product-	Best Tutorial link - click to view	Article link-click to view		
	Maximum product subarray Next permutation	subarray3804/1 https://leetcode.com/problems/next-permutation/	Best Tutorial link - click to view Best Tutorial link - click to view			
Time and space complexity	Seive of eranthoses(Popular algo for prime numbers)	https://www.geeksforgeeks.org/problems/sieve-of-eratosthenes/5242/1	Best Tutorial link - click to view	Article link-click to view		
Matrix - Data structure	https://youtu.be/FPudUd7W-E?sins_d8cjdb8UdWg16 - After learning this, make sure to learn time. Once you learn this, in many advanced topics like graphs, DP, backtracking, this is super imp. This	e and space complexity for all the problems moving forward				
Traversal & Basic & Must solve	section is to learn 2D array and to get grip on basics					
	What is a 2D Array? How to access element?  Search in a matrix	https://leetcode.com/problems/search-a-2d-matrix/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view		
	Rotate by 90 degree	https://www.geeksforgeeks.org/problems/rotate-by-90-degree-1587115821/1	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/row-with-minimum-number-of- 1s5430H2 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	Maximum num of 1's row Left rotate matrix k times	cky on Article https://oractice.geeksforgeeks.org/problems/left-rotate-matrix-k-times2351/1	Best Tutorial link - click to view Best Tutorial 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				
	Print matrix in diagonal pattern Set matrix zeros	cky_on_Article https://leetcode.com/problems/set-matrix-zeroes/	Best Tutorial link - click to view Best Tutorial link - click to view			
Recursion - Technique	Set matrix zeros  Recursion is super important concept!! Lets first understand the basics of recursion in this section before moving forward					
Basics	Understand what recursion is and how it works(Draw the recursive tree for every recursive prob you solve)		Best Tutorial link - click to view	Article link-click to view		
	Print 1 to N using recursion	https://www.geeksforgeeks.org/problems/print-1-to-n-without-using-loops- 1587115620/1	Best Tutorial link - click to view			
	Factorial of N numbers	https://practice.geeksforgeeks.org/problems/factorial5739/1 https://www.geeksforgeeks.org/problems/nth-fibonacci-number1335/12	Best Tutorial link - click to view	Article link-click to view		
	Fibonacci series using recursion	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- 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-1587115620/17 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	Power(x,n) Draw the recursion tree for all the probs for sure  Print pattern	cky_on_Article https://www.geeksforgeeks.org/problems/print-pattern3549/12 page=18.category=Recursion&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view Best Tutorial link - click to view			
		page=1&category=Necursion&difficulty=isav&sortisy=submissions https://practice.geeksforgeeks.org/problems/implement-atoi/12 utm_source=oeeksforgeeks&utm_medium=mi_Article_practice_tab&utm_ca	pour resonance (e.K - CRCK to View	CHARLE HIR HARK TO VIEW		
	Recursive implementation of atoi	utm source=geekstorgeeks&utm medium=ml Article practice tab&utm ca mpaign=Article practice tab https://www.geeksforgeeks.org/problems/pascal-triangle0652/12	Best Tutorial link - click to view	Article link -click to view		
	Pascal triangle  https://lenkoude.com/idiscuss/general_discussion/891826/Pinary_Search_for_Regioners_Problems_or_	page=1&category=Recursion&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link -click to view		
Binary Search - Algo Basic pattern	Patterns-or-Sample-solutions					
Seaso pattern	Search in a sorted array(Efficiently -> So learn binary search for this)	https://www.geeksforgeeks.org/problems/who-will-win-1587115621/12 page=1&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to		
	Search in a sorted array(Efficiently -> So learn binary search for this)  Find floor and cell in sorted array	page=1&category=Binary%20Search&sorfBy=submissions https://www.geeksforgeeks.org/problems/floor-in-a-sorted-array- 1587115620/1	Best Tutorial link - click to view  Best Tutorial link - click to view			
	Find floor and cell in sorted array  Find first and last occurrence of element in sorted array.	https://www.geeksforgeeks.org/problems/first-and-last-occurrences-of-	Best Tutorial link - click to view			
	Find first and last occurence of element in sorted array Find missing num from 1 to N	x3116/17page=1&category=Binary%20Search&sortBy=submissions https://leetcode.com/problems/missing-number/	Best Tutorial link - click to view  Best Tutorial link - click to view			
	Find square root	https://www.geeksforgeeks.org/problems/square-root/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to		
	Find square root Search for element in infinite array	https://www.codingninjas.com/studio/problems/search-in-infinite-sorted-0-1-	Best Tutorial link - click to view  Best Tutorial link - click to view			
Sorted rotated array		array_696193				
	Search element in sorted rotated array(With and without duplicate)	https://leetcode.com/problems/search-in-rotated-sorted-array-ii/ https://www.geeksforgeeks.org/problems/minimum-number-in-a-sorted-	Best Tutorial link - click to view	Article link click to view		
	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	rotated-array-1587115620/17page=1&category=Binary% 20Search&sortBy=submissions	Best Tutorial link - click to view	Article link click to view		
	Number of times array is sorted	https://www.geeksforgeeks.org/problems/rotation4723/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	Number of times array is sorted  Maximum element in sorted rotated array	gky on Article	Best Tutorial link - click to view Best Tutorial link - click to view			
Biotonic array		https://www.geeksforgeeks.org/problems/peak-element/12				
	Find the peak element	page=1&category=Arrays&difficulty=Medium&status=solved&sortBy=submis 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		
		https://www.geeksforgeeks.org/problems/binary-matrix-having-maximum- number-of-1s170647/17page=2&category=Binary%				
	Find row with maximum number of 1's	20Search&sortBy=submissions https://www.geeksforgeeks.org/problems/search-in-a-matrix-1587115621/12	Best Tutorial link - click to view	Article link-click to view		
	Search in row wise column wise sorted matrix	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- 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		
	Find peak in sorted matrix	https://leetcode.com/problems/find-a-peak-element-ii/	Best Tutorial link - click to view			

	Aggressive cows	https://www.geeksforgeeks.org/problems/aggressive-cows/1? 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- pages0937/12 itm_source-geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	Allocate minimum pages	cky on Article	Best Tutorial link - click to view		
	Painter partition	https://www.geeksforgeeks.org/problems/the-painters-partition- problem1535/1?page=1&category=Binary%20Search&sortBy=submissions https://www.geeksforgeeks.org/problems/split-array-largest-sum141634/12	Best Tutorial link - click to view		
	Split array largest sum	page=2&category=Binary%20Search&sortBy=submissions https://eetcode.com/problems/minimum-number-of-days-to-make-m-	Best Tutorial link - click to view		
	Minimum num of days to make m bouquets	bouquets/ https://www.geeksforgeeks.org/groblems/capacity-to-ship-packages-within-	Best Tutorial link - click to view		
	Capacity to ship packages within D days koko eating bananas	d-days/1?page=2&category=8inary%20Search&sortBy=submissions https://leetcode.com/problems/koko-eating-bananas/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	kth smallest number in matrix multiplication table kth smallest pair distance	https://leetcode.com/problems/kth-smallest-number-in-multiplication-table/ 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/ Median of 2 Sorted Arrays of Different Sizes   Practice   GeeksforGeeks	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
Sorting - Algo	Find smallest divisor given threshold	Find the Smallest Divisor Given a Threshold - LeetCode		Article link-click to view	
Sorting - Aigo	Make sure to completely understand the algo thoroughly, and time & space complexity	https://www.geeksforgeeks.org/problems/bubble-sort/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky_on_Article			
Basics	Bubble sort(very basic sorting technique)	chy on Article https://www.geeksforgeeks.org/problems/selection-sort/12	Best Tutorial link - click to view	Article link-click to view	
	Selection sort	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti_ cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Insertion sort	https://www.geeksforgeeks.org/problems/insertion-sort/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	I SACIONAL SOLI	https://www.geeksforgeeks.org/problems/merge-sort/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	Merge sort	cky_on_Article 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- cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
LinkedList - Data structure Basic patterns	Completely understand how Node in linkedList is represented and then go ahead with the patterns		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/oroblems/search-in-linked-list-1664434328/1		Article 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/oroblems/reverse-a-linked-list/1? 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- 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 page=2&category=Linked%20List&sortBy=submissions	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)	https://www.geeksforgeeks.org/problems/intersection-point-in-y-shapped- linked-lists/17page=18.category=Linked%20List8sortBy=submissions https://www.geeksforgeeks.org/problems/union-of-two-linked-list/12	Best Tutorial link - click to view	Article link - click to view	
	Union and Intersection of LL	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti_ cky_on_Article	Best Tutorial link - click to view	Article link - click to view	
	Delete without head pointer	https://www.geeksforgeeks.org/problems/delete-without-head-pointer/12 page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view		
	Count pairs with given sum	https://www.geeksforgeeks.org/problems/count-pairs-whose-sum-is-equal- to-x/17page=2&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view	
Loop	Reverse LL in groups of given size(Once you learn reverse of LL's efficient approach, you can try this)	https://www.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of- 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 leamt, all the loop pattern probs below should be easy)	https://www.geeksforgeeks.org/problems/detect-loop-in-linked-list/12 page=18category=Linked%20List8sortBy=submissions	Best Tutorial link - click to view	Article link - click to view	
	Detect loop in LL(Unice this is learner, all the loop patiern proos below should be easy)  Find length of loop in LL	https://www.geeksforgeeks.org/problems/find-length-of-loop/12 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- linked-list170645/1	Best Tutorial link - click to view		
	Remove the loop	https://www.geeksforgeeks.org/problems/remove-loop-in-linked-list/1? page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view		
Sorting, Merging & Related		https://www.geeksforgeeks.org/problems/given-a-linked-list-of-0s-1s-and-2s- sort-it/1?page=1&category=Linked%20List&sortBy=submissions			
	Sort 0s, 1s, 2s in LL	https://www.geeksforgeeks.org/problems/pairwise-swap-elements-of-a-	Best Tutorial link - click to view	Article link-click to view	
	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	linked-list-by-swapping-data/1?page=2&category=Linked% 20List&sortBy=submissions	Best Tutorial link - click to view		
	with logic, first solve that)	page=1&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/sort-a-linked-list/1?	Best Tutorial link - click to view		
	Merge sort in LL	page=2&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/oroblems/quick-sort-on-linked-list/12	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- 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/17page=18category=Linked% 20List8dfficulty=Easy8sortBy=submissions https://www.geeksforgeeks.			
	Remove occurence of duplicates in sorted & unsorted LL	20List&difficulty=Easy&sortBy=submissions https://www.geeksforgeeks. prg/problems/remove-duplicates-from-an-unsorted-linked-list/12 page=1&category=Linked%20List&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Arithmetic/De	Seggregate even and odd nodes in LL	https://practice.geeksforgeeks.org/problems/segregate-even-and-odd- nodes-in-a-linked-list5035/1	Best Tutorial link - click to view	Article link-click to view	
Arithmetic(Reversal & traversal - Once you learnt these, you can solve probs in this pattern)					
	Add 1 to a number represented as LL	https://practice.geeks.forgeeks.org/problems/add-1-to-a-number- 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-			
		by-linked-lists/1	Best Tutorial link - click to view	Article link-click to view	
	Subtraction on LL(Comes under hard but should be solvable once the above ones are solved)	by-linked-lists/1 https://www.geeksforgeeks.org/problems/subtraction-in-linked-list/12 page=1&category=Linked%20List&difficulty=Hand&sortBy=submissions		Article link-click to view  Article 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	Subtraction on LL(Comes under hard but should be solvable once the above ones are solved)	bz_infeci_itatz1_ https://www.oeeksforgeeks.org/problems/subtraction-in-in/eed-issU12 page=1&category=Linked%20List&difficulty=Hart&sortBy=submissions			
Must solve other probs[Try to solve these probs on own, brute force atleast you can come up for most of them after solving above)		https://www.geeksforgeeks.org/problems/subtraction-in-linked-list/12- page=1.6category=Linked-list/0.list/6dfficulty=Hand-Scottly-subtractions https://www.geeksforgeeks.org/problems/specifical/siz/12-	Best Tutorial link - click to view	Article link-click to view	
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these probe on own, bruts for selesat solving above) for intest of them after solving above) for intest of them after solving above)  Double Linked List  Double Linked List  Next greater element  Next greater element done above pattern is covered, try to solve this on own)  Expressions  Expressions	Rotate LL  Fattering a LL(make sure to learn the efficient approach)  Delete nodes having greater value on right  Delete nodes having greater value on right  Delete a loose after M nodes  Delete all coocernee of node  Clone a LL  Length of longest palindrome in LL  Learn the basics of circular LL  Learn the basics of circular LL  Learn the basics of circular LL  Learn the basics of presentation of the nodes in LL  Intest, Delete, Reverse DLL  What is stack? Learn how to represent the data structure and working of it  Implement 2 stack using array  Check for balanced paramthesis  Get min from stack in O(1) space and time  Nost greater element  Nost greater element  Nost greater element  Nost greater element in left  Nest smallest element on right  Trapping naineater  And proached problem (Implementation prob - Try to figure out the pattern from above next greater and renaling)  Max rectamination area on histogram(Once next greater and next smallest pattern is covered, least can be solved easily)  Max rectamination area on histogram(Once next greater and next smallest pattern is covered, least can be solved easily)  Max rectamination of prostic expression  Perfect to postific  Evaluation of postific expression  Perfect to postific  Evaluation of postific expression  Perfect specific.  Actimised expression evaluation  Interest at bottom of stack  Reverse a stack  Sort stack(Solving above too can give you hint for this)	these lower peersharpersharped and production and interest described and program Management Managem	Best Tutorial link - click to view Best Tutorial li	Addicts links clinic to stees	
these probe on own, brute for alleast solving above) for intest of them after solving above) for intest solving above brute intest interest inte	Redate LL  Fattering a LL(make sure to learn the efficient approach)  Delete N anotes after M modes  Delete N anotes after M modes  Delete N anotes after M modes  Clone a LL  Length of longest palindome in LL  Learn the basics of circular LL  Learn the basics of persentation of the nodes in LL  Irract, Delete, Reverse DLL  What is stack? Learn how to represent the data structure and working of it  Irriperment 2 stack using array  Check for balanced paramitesis  Get min from stack in O(1) space and time  Next greater dement  Next greater dement  Next greater dement in  Next greater dement in let  Next smallest dement on right  Sea season color in preparamitation prob - Try to figure out the pattern from above next greater and exist and smallest dement on right  Trapping naimwater  Maximum reclangular area on histogram/Once next greater and next smallest pattern is covered, this can be solved easily)  Max reclangle(Same as above, just a small twist)  Infix to postfix  Evaluation of postfix expression  Prink to postfix  Arthmetic expression evaluation  Invest at bottom of stack  Reverse a stack	those Jovens penalshorpenks organization in trend-list?  pages Educations—Listed Tulk statistical policy and account and accou	Best Tutorial link - click to view Best Tutorial li	Addice lank-clock to utere	
these probe on own, bruts for selesat solving above) for intest of them after solving above) for intest of them after solving above)  Double Linked List  Double Linked List  Next greater element  Next greater element done above pattern is covered, try to solve this on own)  Expressions  Expressions	Rotate LL  Fattering a LL(make sure to learn the efficient approach)  Delete in nodes after it modes  Delete a nodes aboving greater value on right  Delete and nodes advantage of node  Chone a LL  Length of longest palindrome in LL  Learn the basics of circular LL  Learn the basics of circular LL  Learn the basics of circular LL  Learn the basics of presentation of the nodes in LL  Para 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 balanced paramthesis  Cel ten from stack in (0(1) space and time  Next greater element II  Next smallest element on left  Next greater element in left  Stock space problem(implementation prob Try to figure out the pattern from above next greater and renalize)  Trapping minester  Trapping minester  Trapping minester  Trapping minester  Trapping minester  Frequent of postific expression  Perfix to postifix  Final stock of postific expression  Perfix to postifix  Final stock of postific expression  Perfix to postifix  Authretic expression evaluation  Interest at bottom of stack  Reverse a stack  Sort stack(Solving above two can give you hint for this)  Celebrilly problem	these lower peersharpersharped and production and interest described and program Management Managem	Best Tutorial link - click to view Best Tutorial li	Addict link click to stees	
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these probe on own, brids force alleast solving above) for intest of them after solving above) for intest of them after solving above) for intest of them after solving above.  Double Linked List  Stack - Data structure Basic  Next greater element  Next smallest element(Once above pattern is covered, try to solve this on own)  Expressions  Expressions  Reversing stack	Rotate LL  Fattering a LL(make sure to learn the efficient approach)  Delete nodes having greater value on right  Delete nodes having greater value on right  Core a LL  Length of longest palindrome in LL  Length of longest palindrome in LL  Learn the basics of crouter LL  Learn the basics of crouter LL  Learn the basics representation of the nodes in LL  Irrisert, Delete, Reverse DLL  Pairs with given aum in DLL  What is stack? Learn how to represent the data structure and working of it  Implement 2 stack using array  Check for basinced paramiteries  Get mult not stack in O(1) space and time  Nost greater element  Nost greater element  Nost greater element in left  Nost smallest element on left  Nost smallest element on infet  Sock span precipient/implementation prob - Try to figure out the pattern from above next greater and tension	these Jewes peersharpersharped and production and intendication of the celebration of the	Best Tutorial link - click to view	Addice link-click to stees	
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these probe on own, bruts force alleast solving above) for intest of them after solving above.  Stack - Data structure Basic  Next greater element  Next smallest element(Once above pattern is covered, by to solve this on own)  Expressions  Expressions  Queue - Data structure Basic pattern	Rotate LL  Fattering a LL(make sure to learn the efficient approach)  Delete nodes having greater value on right  Delete nodes having greater value on right  Delete a looscorence of node  Clone a LL  Length of longest palindrome in LL  Learn the basics of circular LL  Learn the basic circular LL  Learn the basic representation and how its implemented?  Unal to queue? Learn the basic representation and how its implemented?	these Jewes peechs from price of the programment of the control of	Best Tutorial link - click to view Best Tutorial li	Addice lank-clock to utere	

	Reverse a queue	https://www.geeksforgeeks.org/problems/queue-reversal/1? 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-1587115620/12 page=1&category=Queue&sortBy=submissions			
	Circular tour	https://www.geeksforgeeks.org/problems/first-non-repeating-character-in-a-	Best Tutorial link - click to view		
	First non repeating char in stream  Reverse first k elements in queue	stream1216/12page=1&category=Queue&sortBy=submissions https://www.geeksforgeeks.org/problems/reverse-first-k-elements-of- gueue/12page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
		gueuer i rpage i lacaregory-tureueasorrey-submissions https://www.geeksforgeeks.org/problems/fru-cache/12 page=1&category=Oueue&sorfBy=submissions	Best Tutorial link - click to view		
	Minimum cost of roces	https://www.geeksforgeeks.org/problems/minimum-cost-of-ropes- 1587/116820/17gage=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view		
	Nearly sorted(Learn priority queue for sure)	https://www.geeksforgeeks.org/problems/nearly-sorted-1587115620/12 page=3&category=Arrays&difficulty=Medium	Best Tutorial link - click to view		
Sliding Window - Technique (Dont skip this topic, I personally have been		https://leetcode.com/problems/find-all-anagrams-in-a- string/solutions/92007/stiding-window-algorithm-template-to-solve-all-the-			
asked this topic in many interviews Fixed Sliding Window(Size of the	gfg generally	leetcode-substring-search-problem/			
window will be provided)		https://www.geeksforgeeks.org/problems/max-sum-subarray-of-size- k5313/17			
	Maximum sum subarray of size k	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- 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- window/17page=1&category=sliding-window/8.sor/By=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 you did above topics too already	https://www.geeksforgeeks.org/problems/first-negative-integer-in-every- window-of-size-k3345/1/page=1&category=sliding- window&sorfby=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- k3101/17page=1&category=sliding-window&sortBy=submissions	Best Tutorial 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- distinct-elements/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum of minimum for every window(lmp)	https://www.geeksforgeeks.org/problems/maximum-of-minimum-for-every- 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 teach something in addition to the window so do solve everything)					
	Subarray with given sum	https://www.geeksforgeeks.org/problems/subarray-with-given-sum- 1587115621/12page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Longest subarray with given sum k(Same as above with slight modification)	https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum- k0809/12page=1&category=sikting-window&sortBy=submissions https://www.geeksforgeeks.org/problems/subarray-with-0-sum-	Best Tutorial link - click to view	Article link-click to view	
	Subarray with 0 sum	1587115821/17eage=1&category=sliding-window&sort6y=submissions https://www.geeksforgeeks.org/problems/smallest-distant-window3132/12	Best Tutorial link - click to view		
	Smallest window of distinct elements	page=1&category=siding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/smallest-window-containing-0-1-	Best Tutorial link - click to view		
	Smallest window containing 0,1,2	and-2170637/17page=2&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/smallest-window-in-a-string- containing-all-the-characters-of-another-string-1587115621/12	Best Tutorial link - click to view	Article link-click to view	
	Smallest window in string containing all chars of another string	containing-all-the-characters-of-another-string-1897119521777 page=18category=skiding-window-8cortiby=submissions https://www.geeksforgeeks.org/problems/length-of-the-longest-	Best Tutorial link - click to view		
	Length of longest substring	<u>substring3038/12page=1&amp;category=sliding-window&amp;sortBy=submissions</u> <u>https://www.geeksforgeeks.org/problems/largest-subarray-of-0s-and-1s/12</u>	Best Tutorial link - click to view		
	Largest subarray of 0s and 1s	page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/count-occurences-of-	Best Tutorial link - click to view		
	Count of anagram occurence(Super imp)  Max consecutive ones III	anagrams5839/17page=1&category=siding-window&sortBy=submissions https://leetcode.com/problems/max-consecutive-ones-ii/	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/fruit-into-baskets https://leetcode.com/problems/count-number-of-nice-subarrays/	Best Tutorial link - click to view Best Tutorial link - click to view		
	Longest repeating char replacement Minimum window substring	https://leetcode.com/problems/longest-repeating-character-replacement https://leetcode.com/problems/minimum-window-substring/description/	Best Tutorial link - click to view 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://eetcode.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  PreOrder Traversal	https://www.geeksforgeeks.org/problems/preorder-traversal/12	Best Tutorial link - click to view	Audiate that office a	
		page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/norder-traversal/12 page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
	PostOrder Traversal	https://www.geeksforgeeks.org/problems/postorder-traversal/1? page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Level Order Traversal	https://www.geeksforgeeks.org/problems/level-order-traversal/12 page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Boundary Traversal (Once level traversal is learnt, this you can solve)	https://www.geeksforgeeks.org/problems/boundary-traversal-of-binary- tree/17page=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- order/12page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/top-view-of-binary-tree/12	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 page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/bottom-view-of-binary-tree/12	Best Tutorial link - click to view		
	Bottom View of BT(Once you have mastered level traversal, this should be easy)	page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/left-view-of-binary-tree/12	Best Tutorial link - click to view		
		page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/piroblems/right-view-of-binary-tree/12 page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/diagonal-traversal-of-binary- tree/17/aoge=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
Basic and Easy patterns(Try to solve these once you learnt traversals)					
	Insert node in a tree	https://www.geeksforgeeks.org/problems/height-of-binary-tree/12 page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Height of the tree Diameter of the tree	page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/diameter-of-binary-tree/12 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 acategory=1 reedsonsy-submissions https://www.geeksforgeeks.org/problems/determine-if-two-trees-are- identical/17aage=18.category=1 reedsonf8y=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/check-if-subtree/12 page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Check for balanced tree	https://www.geeksforgeeks.org/problems/check-for-balanced-tree/12 page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Lowest common Ancestor in BT	https://www.geeksforgeeks.org/problems/lowest-common-ancestor-in-a- binary-tree/12nage=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/sum-tree/12 page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/symmetric-tree/12	Best Tutorial link - click to view		
	Symmetric tree	page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/mirror-tree/12	Best Tutorial link - click to view		
	Mirror of a tree Check if isomorphic	page=18category=Tree8sortBy=submissions https://www.geeksforgeeks.org/problems/check-if-tree-is-isomorphic/12 page=28category=Tree8sortByssy-bmissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
Path and Distance					
	Root to leaf paths	https://www.geeksforgeeks.org/problems/root-to-leaf-paths/12 page=4&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/root-to-leaf-paths/12	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)	page=4&category=Tree&crity=submissions https://www.geeksforgeeks.org/org/org/org/maximum-path-sum-from-any-	Best Tutorial link - click to view		
	Maximum path sum from any node(Once the root to leaf path is solved, this should be easy)	node/1?page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/k-sum-paths/1?	Best Tutorial link - click to view		
	K Sum Paths (Once the root to leaf path is solved, this should be easy)  Nodes at given distance	page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/nodes-at-given-distance-in-binary- tree/12page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
	Range sum of BST(Solving nodes at given distance, will make this easy)	tree/1?page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/min-distance-between-two-given-	Best Tutorial link - click to view 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/17page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/maximum-difference-between-	Best Tutorial link - click to view		
	Maximum distance between node and ancestor(Must solve though distance pattern is covered)	node-and-its-ancestor/1?page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/burning-tree/12	Best Tutorial link - click to view		
Binary Search Tree/Once the above	Min time to burn a tree(Using distance logic, this can be sovled)	page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view	essacie ink-cick to view	
patterns are covered, BST probs will become easy, but make sure to learn what BST is in general before starting with probs)	Understand what BST is?		Best Tutorial link - click to view		
with probs)	to a second to poor	https://leetcode.com/problems/insert-into-a-binary-search-free/	Best Tutorial link - click to view  Best Tutorial link - click to view	Article link-click to view	
	Insert a noise in BST 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 https://www.geeksforgeeks.org/problems/max-and-min-element-in-binary-	Best Tutorial link - click to view		
	Find minimum and maximum in BST Find the Klh largest elementikth Smallest in BST(Try to solve it without looking for soln, once you have mastered all the above patterns, this should be easy)	tree/12page=5&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/kth-largest-element-in-bst/12	Best Tutorial link - click to view		
	have mastered all the above patterns, this should be easy)  Check for BST(Try solving probs in this pattern by yourself till LCA once above are solved)	page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/check-for-bst/12 page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
	Check for BS 1(1ry solving proos in this patiern by yourserful LLA once above are solved)  Find the closest element in BST	page=1acategory=1reeasoritgy=submissions https://www.geeksforgeeks.org/problems/find-the-closest-element-in-bst/12 page=3&category=1reeasoritgy=submissions	Best Tutorial link - click to view		
	Count BST nodes in the given range	https://www.geeksforgeeks.org/problems/count-bst-nodes-that-lie-in-a-given- range/1?page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Largest BST in BT(Super imp - Must solve)	https://www.geeksforgeeks.org/problems/largest-bst/12 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- bst/12page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/merge-two-bst-s/12	Best Tutorial link - click to view	Article link-click to view	
		page=4&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/predecessor-and-successor/12	Best Tutorial link - click to view		
	Increer successor and predecessor	https://www.geeksforgeeks.org/problems/populate-inorder-successor-for-all-	Best Tutorial link - click to view		
	Populate inorder successor for all nodes	nodes/17page=5&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/bst-to-greater-sum-tree/12 page=9&category=Tree&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
Construct for		page=8&category=Tree&sortBy=submissions https://leetcode.com/problems/delete-node-in-a-bst/	Best Tutorial link - click to view Best Tutorial link - click to view		
Construct from given	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)	https://www.geeksforgeeks.org/problems/construct-tree-1/12 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- postorder-traversal/	Best Tutorial link - click to view		
	Construct BST from given preorder traversal	https://www.geeksforgeeks.org/oroblems/construct-tree-from-preorder- traversal/17page=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- array/1?page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
Subtree & Other must do tree probs	Serialize and deserialize BT	https://www.geeksforgeeks.org/problems/serialize-and-deserialize-a-binary- tea/12nanes/8-raterone-Trea8-extfluers/bmissions-	Rest Tutoriel link and the con-	Article link elich to com	
		tree/1?page=4&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/largest-subtree-sum-in-a-tree/1? page=6&category=Tree&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/maximum-sum-of-non-adjacent- nodes/17page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Duplicate subtree	https://www.geeksforgeeks.org/problems/duplicate-subtrees/1? page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Flatten BT to linked list	https://www.geeksforgeeks.org/problems/flatten-binary-tree-to-linked-list/12 page=5&category=Tree&sortBy=submissions https://lonkrode.org/linkruss/pages/all/linkrussions/690360/a	Best Tutorial link - click to view	Article link-click to view	
Backtracking & Recursion 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	page=58category=Tree8cotByesubmissions https://eetcode.com/discuss/general-discussion/680269/a- general-approach-to-backtracking-problems-in-cexhaustive- searching			
davanced - reciniique	now as the first step, this will neip in visualization of the flow	- Source and			

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					
will start mastering it though initially it takes sometime)	Understand the basics of backtracking and start solving				
	Permutations of a string	https://www.geeksforgeeks.org/problems/permutations-of-a-given- string2041/17page=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 https://www.geeksforgeeks.org/problems/combination-sum-1587115620/12	Best Tutorial link - click to view	Article link-click to view	
	Combination sum I  Combination sum II(Once you solve combination I, you should be able to solve this and below 2	page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	combination sum III	https://leetcode.com/problems/combination-sum-ii https://leetcode.com/problems/combination-sum-iii	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view  Article link-click to view	
	Rat in maze(Once above probs are solved, you can do this easily)	https://www.geeksforgeeks.org/problems/rat-in-a-maze-problem/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Possible words from phone digits	https://www.geeksforgeeks.org/problems/possible-words-from-phone-digits- 1587115620/12page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Subsets	https://www.geeksforgeeks.org/problems/subsets-1613027340/12 page=1&category=Backtracking&scriBvs.ubmissions	Best Tutorial link - click to view		
	Unique subset(Solving above, you will be able to solve this easily)	https://www.geeksforgeeks.org/problems/subsets-1587115621/17 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	N-Queen(Super imp)	https://www.geeksforgeeks.org/problems/in-gueen-problem0315/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	N Queen II	https://leetcode.com/problems/n-queens-ii	Dest Totolial IIIK - CitA to view	AUDIE HIK-LIKA IO VEW	
	Permutation with spaces	https://www.geeksforgeeks.org/problems/permutation-with-spaces3627/12 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- parentheses/12page=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/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Solve the sudoku	https://www.geeksforgeeks.org/problems/solve-the-sudoku-1587115621/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	kth permutation	https://www.geeksforgeeks.org/problems/find-kth-permutation/12 page=2&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Word search	https://www.geeksforgeeks.org/problems/word-search/12 page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/find-all-possible-palindromic- partitions-of-a-string/12			
	Palindrome partition of string	page=2&category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/decode-the-string2444/12	Best Tutorial link - click to view		
	Decode the string Letter case permutation	page=1&category=Backtracking&sortBy=submissions https://leetcode.com/problems/letter-case-permutation/	Best Tutorial link - click to view Best Tutorial link - click to view		
	sum string	https://www.geeksforgeeks.org/problems/sum-string3151/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	word boggle	https://www.geeksforgeeks.org/problems/word-boggle4143/17 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Largest number in k swaps	https://www.geeksforgeeks.org/problems/largest-number-in-k-swaps- 1587115620/17page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Partition array to k subsets	https://www.geeksforgeeks.org/problems/partition-array-to-k-subsets/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article 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 this topics	https://leetcode.com/discuss/general-discussion/655708/graph-for- beginners-problems-pattern-sample-solutions/			
Traversals & Basic	Understand how graph is represented?	https://www.geeksforgeeks.org/problems/bfs-traversal-of-graph/17	Best Tutorial link - click to view		
	BFS Traversal(Super imp and basic)	page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/depth-first-traversal-for-a-graph/12	Best Tutorial link - click to view		
	DFS Traversal(Super imp and basic)	page=1&category=Graph&cotBy=submissions https://www.geeksforgeeks.org/problems/detect-cycle-in-a-directed-graph/17	Best Tutorial link - click to view		
	Detect cycle in Directed graph	page=18category=Graph8sortBy=submissions https://www.geeksforgeeks.org/problems/detect-cycle-in-an-undirected-	Best Tutorial link - click to view		
	Detect cycle in Undirected graph	graph/17page=18category=Graph&ortBy=submissions https://www.geeksforgeeks.org/problems/negative-weight-cycle3504/12	Best Tutorial link - click to view		
Connected component(After traversal,	Detect Negative cycle in graph	page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
this will be easy to solve)	Connected component(Once you master this , all the below using this pattern will become super	https://practice.geeksforgeeks.org/problems/strongly-connected-component-			
	easy)	https://www.geeksforgeeks.org/problems/number-of-provinces/12	Best Tutorial link - click to view		
	Number of Provinces(Learn how to solve this prob and solve the below in this pattern)	page=28category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/find-the-number-of-islands/1?	Best Tutorial link - click to view		
	Number of Islands	page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/number-of-distinct-islands/12	Best Tutorial link - click to view		
	Number of distinct island	page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/find-number-of-closed-islands/12	Best Tutorial link - click to view		
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	Bipartite graph	https://www.geeksforgeeks.org/problems/bipartite-graph/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	M-colouring	https://practice.geeksforgeeks.org/problems/m-coloring-problem- 1587115620/1	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)	https://www.codingninjas.com/studio/problems/shortest-path-in-an- unweighted-graph 981297	Best Tutorial link - click to view		
	Find shortest path in DAG	https://www.geeksforgeeks.org/problems/shortest-path-in-undirected- graph1?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Dijkstra Algo	https://www.geeksforgeeks.org/problems/implementing-dijkstra-set-1- adjacency-matrix/12page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Step by Knight	https://www.geeksforgeeks.org/problems/steps-by-knight5927/17 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Shortest path source to destiny	https://www.geeksforgeeks.org/problems/shortest-source-to-destination- path3544/17agge=18category=Graph8sortBy=submissions	Best Tutorial link - click to view		
	Find if path exists	https://www.geeksforgeeks.org/problems/find-whether-path-exist5238/17 page=28category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Covid spread	https://www.geeksforgeeks.org/problems/covid-spread141631/17 page=4&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	COVID Spicac				
	Minimum cost oath	https://www.geeksforgeeks.org/problems/minimum-cost-path3833/17		Article link-click to view	
	Minimum cost path	page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Word ladder I	page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/oroblems/word-ladder/12 page=3&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/oroblems/word-ladder-ii/12	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
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	Non overlapping interval  Minimum cost of roces	https://leetcode.com/problems/non-overlapping-intervals/ https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes- 1587115620/1	Best Tutorial link - click to view  Best Tutorial link - click to view		
	Partition labels	https://leetcode.com/problems/partition-labels/ https://leetcode.com/problems/cinema-seat-allocation/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	Max length chain	https://www.geeksforgeeks.org/problems/max-length-chain/12 page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view		
	Valid parantheses - Minimum	https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/ https://practice.oeeksforoeeks.org/problems/shortest-iob-first/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
		https://practice.geeksforgeeks.org/problems/fru-cache/12 utm_source=youtube&utm_medium=collab_fraz_websitelink&utm_campaign			
	Least recently used DP is super crucial topic and very commonly asked in many interviews!! One major thing you need to know is, don't start with labulation approach directly, thats wrong way to learn DP. First find the	=ERU+Cache	Best Tutorial link - click to view	Article link-click to view	
Dynamic Programming - Technique	solution using recursion, then memoization and then finally tabulation and space reduction in tabulation.	https://leetcode.com/discuss/general-discussion/662666/dp-for-beginners- problems-patterns-sample-solutions			
Basic	Understand the basics!!		Best Tutorial link - click to view	Article link-click to view	
1D - Linear DP		https://www.geeksforgeeks.org/oroblems/count-number-of-hops- 1887118870017-2-aces-28-categogy-Dunamic/K			
	Count num of hops	18871186201170age=28.category=Dynamic% 20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/count-ways-to-reach-the-nth-stair-	Best Tutorial link - click to view	Article link-click to view	
	Count way to reach nth stair(Order matters)	1887115620/17page=2&category=Dynamic% 20Programming&sortBy=submissions https://www.oeeksforceeks.oru/problems/count-ways-to-nth-stainorder-does-	Best Tutorial link - click to view	Article link-click to view	
	Count way to reach nth stair(Order doesn't matter)	not-matter5639/17page=4&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view		
		https://leetcode.com/problems/house-robber/ https://leetcode.com/problems/house-robber-ii/	Best Tutorial link - click to view		
2D Grid DP	Count paths - grid	https://www.geeksforgeeks.org/problems/count-the-paths4332/12 page=5&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://leetcode.com/problems/unique-paths-ii/	Best Tutorial link - click to view		
		left-to-bottom-right3011/1?page=3&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view		
	Minimum path sum in grid  Max path sum	https://leetcode.com/problems/minimum-path-sum/ https://www.geeksforgeeks.org/problems/path-in-matrix3805/12 page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
	Minimum path sum in triangular grid	https://leetcode.com/problems/triangle/ https://www.geeksforgeeks.org/problems/number-of-paths-in-a-matrix-with-	Best Tutorial link - click to view		
	Number of paths with k coins	k-coins2728/17page=7&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view		
	Minimum/Maximum falling path sum Minimum falling path sum II	https://leetcode.com/problems/minimum-falling-path-sum- https://leetcode.com/problems/minimum-falling-path-sum-ii	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
DP on subsequence		https://www.geeksforgeeks.org/problems/subset-sum-problem- 1611555638/17page=1&category=Dynamic%			
	Subset sum problem	20Programming&status=solved&sortBy=submissions https://www.geeksforgeeks.org/problems/perfect-sum-problem5833/12	Best Tutorial link - click to view		
	Count subset with given sum k  Partition equal subset sum(Try to do it on own after solving above two, just a small trick)	page=1&category=Dynamic/k20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/subset-sum-problem2014/12 page=1&category=Dynamic/k20Programming&sortBy=submissions	Best Tutorial link - click to view Best Tutorial link - click to view		
	Minimum sum partition	https://www.geeksforgeeks.org/oroblems/minimum-sum-partition3317/17 page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Count partition with given diffi 0-1 Knapsack	https://www.geeksforgeeks.org/problems/0-1-knapsack-problem/945/12	Best Tutorial link - click to view  Best Tutorial link - click to view	Article link-click to view	
		page=1&category=Dynamic/S20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/max-sum-without- adjacents243011/page=3&category=Dynamic/S			
	Maximum non adjacent subsequence Coin change	20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/coin-change2448/12 page=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/number-of-coins1824/12 page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
	Rod cutting	https://www.geeksforgeeks.org/problems/rod-cutting0840/12 page=2&category=Dynamic% 20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view		
	Target sum	https://eetcode.com/groblems/target-sum https://www.geeksforgeeks.org/groblems/minimum-cost-to-fill-given-weight-	Best Tutorial link - click to view	TOTAL CONTRACTOR OF THE PARTY O	
	Minimum cost to fill given weight in bag(Solving the above probs in this pattern will make this super easy)	in-a-ba;1956/17page=38.category=Dvnamic% 2DProgramming8.status=softwed8.catBy=submissions https://www.oeeksforoeeks.oro/problems/knaosack-with-duplicate-	Best Tutorial link - click to view	Article link-click to view	
	Knapsack with duplication items	tiens 4201/17 rage=28category Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
DP on Increasing subsequence		https://leetcode.com/problems/longest-increasing-subsequence/	Best Tutorial link - click to view	Article link-click to view Article link-click to view	
		https://www.geeksforgeeks.org/problems/longest-bitonic- subsequence0824/17cage=4&category=Dynamic%	Best Tutorial link - click to view		
	Longest bitonic subsequence(Solve on own, definitely you can do it once the above two are solved) Longest divisible subset(This and the below are just extended version of longest increasing subsequence, so fiv on own.	20Programming&sortBy=submissions https://leetcode.com/problems/largest-divisible-subset/	Best Tutorial link - click to view  Best Tutorial link - click to view		
	Longest string chain	https://eetcode.com/problems/longest-string-chain/ https://eetcode.com/problems/longest-string-chain/ https://eetcode.com/problems/number-of-longest-increasing-subsequence/	Best Tutorial link - click to view  Best Tutorial link - click to view	Article link-click to view	
DP on strings(Using Longest common subsequence pattern)	Num or rangest arcreasing subsequence	III. A STATE OF THE PROPERTY O	DESI TUURISI IIIK - CIIX IO VEN	Audie IIIICICK to view	
	Longest common subsequence(Once you learn this pattern, all probs under this pattern can be solved by yourself)	https://www.geeksforgeeks.org/problems/longest-common-subsequence- 1687115620/17.2page=1&category=Dynamic/s 20Programming&sort@y=submissions	Best Tutorial link - click to view	Article link-click to view	
	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 page=7&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Longest palindromic subsequence Form a palindrome with minimum insertions	https://leetcode.com/problems/longest-palindromic-subsequence https://leetcode.com/problems/minimum-insertion-steps-to-make-a-string- palindrome	Best Tutorial link - click to view Best Tutorial link - click to view		
	Min num of deletions and insertions to make string s1 equal to s2	https://www.geeksforgeeks.org/oroblems/minimum-number-of-deletions- and-insertions0209/17page=4&category=Dynamic% 20Programming&sortBy=submissions			
		https://www.geeksforgeeks.org/problems/shortest-common- supersequence0322/17page=2&category=Dynamic%	Best Tutorial link - click to view		
	Shortest common supersequence Longest common substring/subarray	20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/longest-common-substring1452/12 page=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
	Longest palindromic substring	https://www.geeksforgeeks.org/problems/longest-palindrome-in-a- string3411/1?page=1&category=Dynamic%	Best Tutorial link - click to view		
		20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/longest-repeating- subsequence2004/17page=2&category=Dynamic%			
DP on string	Longest repeating subsequence	2DProgramming&status=solved&sortBy=submissions https://www.neeksforneeks.org/nroblems/edit-distance3702/12	Best Tutorial link - click to view	Article link-click to view	
	Edit distance (All the probs in this pattern are super imp, each prob is different so do solve all)	page=1&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/distinct-occurrences/12	Best Tutorial link - click to view	Article link-click to view	
	Distinct occurence	page=3&category=Dynamic% 20Programming&status=solved&sortBy=submissions https://www.geeksforgeeks.org/problems/wildcard-pattern-matching/12	Best Tutorial link - click to view		
	Wildcard pattern matching	page=4&category=Dynamic%20Programming&sortBy=submissions https://www.neeksforneeks.org/problems/longest-valid-pagentheses5657/12	Best Tutorial link - click to view		
	Longest valid parentheses  Word break	page=3&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/word-break1352/12 page=3&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view		
	Word break II	https://www.geeksforgeeks.org/problems/word-break-part-23249/17 page=5&category=Dynamic%20Programming&sortBy=submissions	- CAA 10 VEV	Article link-click to view	
	Word wrap	https://www.geeksforgeeks.org/problems/word-wrap1646/12	Best Tutorial link - click to view	Article link-click to view	
DP on stocks(Was asked in one of my	Interleaved strings	https://www.geeksintgeeks.org.problems/intenes/veo-strings/1/ page=3&callegory=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
interview too, so dont miss any ques 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	https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/ 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 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/ https://eetcode.com/problems/best-time-to-buy-and-sell-stock-with-	Best Tutorial link - click to view	Article link-click to view	
	Best time to buy and sell stock with cooldown	holdownelcode.com/problems/best-time-to-buy-and-sell-stock-with- transaction-fee/	Best Tutorial link - click to view  Best Tutorial link - click to view		
DP on partition and MCM					
	Minimum cost to cut stick	https://www.geeksforgeeks.org/problems/matrix-chain-multiplication0303/12 page=2&category=Dynamic/&20Programming&sortBy=submissions https://leetcode.com/problems/minimum-cost-lo-cut-a-stick/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Burst balloons	https://www.geeksforgeeks.org/problems/burst-balloons/12 page=8&category=Dynamic/\$20Programming&corfity=submissions https://www.geeksforgeeksforgerblams/boolessporgesbusissions	Best Tutorial link - click to view		
	Boolean Parenthesization	https://www.geeksforgeeks.org/problems/boolean-parenthesization5610/12 page=3&category=Dynamic/s20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/palindromic-patrioning4845/12	Best Tutorial link - click to view		
	Patindrom partitioning Partition array for max sum	page=2&category=Dynamic*&20Programming&sortBy=submissions https://leetcode.com/problems/partition-array-for-maximum-sum/	Best Tutorial link - click to view Best Tutorial link - click to view		
	Max rectangles area with all 1s Count souare submatrices	https://www.geeksforgeeks.org/problems/max-rectangle/12 page=3&category=Dynamic/ls20Programming&sortBy=submissions https://leetcode.com/problems/count-square-submatrices-with-all-ones/	Best Tutorial link - click to view Best Tutorial link - click to view		
Heaps - Data structure Basic patterns		and the second of the second o	E Sha w vick		
	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.gatevidyalay.com/tag/max-heap-questions/ https://www.gatevidyalay.com/tag/max-heap-questions/ https://www.gatevidyalay.com/tag/max-heap-questions/	Best Tutorial link - click to view	Article link-click to view	
Top k pattern	Convert min heap to max heap	1666385109/1	Best Tutorial link - click to view	Arricle link-click to view	
	kth largest in array kth smallest in array	https://www.geeksforgeeks.org/problems/k-largest-elements4208/12 page=1&category=Heap&sortBy=submissions	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Top k frequent elements	https://leetcode.com/problems/top-k-frequent-elements/ https://leetcode.com/problems/top-k-frequent-words	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
		https://leetcode.com/problems/sort-characters-by-frequency/ https://www.geeksforgeeks.org/problems/kth-largest-element-in-a- stream2220/17page=1&category=Heap&sorfBy=submissions	Best Tutorial link - click to view		
	Reorganize string	stream/220/17/page=18category=Heap&sortHy=submissions https://leetcode.com/problems/reorganize-string/ https://leetcode.com/problems/rearrange-string-k-distance-apart	Best Tutorial link - click to view Best Tutorial link - click to view 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- sorted-rows/	Best Tutorial link - click to view	Article link-click to view	
Merge k sorted pattern	The state of the s	https://leetcode.com/problems/ugly-number-ii/	Best Tutorial link - click to view	Article link-click to view	
	k pairs with smallest sum	https://practice.geeksforgeeks.org/problems/merge-k-sorted-arrays/1 https://leetcode.com/problems/find-k-pairs-with-smallest-sums/	Best Tutorial link - click to view Best Tutorial link - click to view Rest Tutorial link - click to view	Article 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	Article link-click to view	
Two heaps pattern					

	Find median from data stream	https://www.geeksforgeeks.org/problems/find-median-in-a-stream- 1587115620/17page=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			
	Maximum capital/IPO	https://leetcode.com/problems/ipo/		Article link-click to view		
	maxinum capitatiro	https://eetcode.com/problems/po/	Best Totoliai IIIK - Click to view	At sicile III IX-CITCK TO VIEW		
Minimum number pattern		han a second of the second of				
	Minimum cost to connect ropes	https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes- 1587115620/1	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			
	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			
	Minimum num of refueling stops	https://leetcode.com/problems/minimum-number-of-refueling-stops/	Best Tutorial link - click to view			
Trie - Data structure	Withintall fall of feldeling stops	nos menos econocionados minimos minimos en en en especial de especial de la constanta de la co	Best Totoliai IIIK - CitX to view	Andre III IX-CICK to view		
Basic and must solve						
	Implement Trie from scratch	https://www.codingninjas.com/studio/problems/implement-trie_631356	Best Tutorial link - click to view	Article link-click to view		
	Word break (Do solve it using trie, though you had solved this already)	https://www.geeksforgeeks.org/problems/word-break-trie=141831/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti cky_on_Article	Best Tutorial link - click to view	Article link-click to view		
	Longest string with all prefixes					
	Longest suring with an prenaces	https://leetcode.com/problems/longest-common-prefix/ https://www.geeksforgeeks.org/oroblems/maximum-xor-of-two-numbers-in-	Best Tutorial link - click to view	ANNUAL THIR-LINES TO VIEW		
		an-array/1?				
	L	itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti	L			
	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 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	Unique rows in boolean matrix	cky on Article	Best Tutorial link - click to view	Article link-click to view		
	Prefix match with other strings	https://www.geeksforgeeks.org/problems/prefix-match-with-other-strings/1	Best Tutorial link - click to view			
	Most of the imp problems in strings involves diff techniques, algos which are already					
String	covered. In this section, we will focus on string specific imp probs and algos					
Must solve and Algos specific to string						
	Implement Atoi	https://www.geeksforgeeks.org/problems/implement-atoi/1	Best Tutorial link - click to view	Article link-click to view		
	Count and say	https://leetcode.com/problems/count-and-say/	Best Tutorial link - click to view	Article link-click to view		
	Minimum bracket reversals	https://www.geeksforgeeks.org/groblems/count-the-reversals0401/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky_on_Article	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)	https://practice.geeksforgeeks.org/problems/search-pattern-rabin-karp- algorithm-141631/1	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- pattern-searching_1115634	Best Tutorial link - click to view	Article 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	https://www.geeksforgeeks.org/longest-prefix-also-suffix/	Best Tutorial link - click to view	Article link-click to view		
	Remove all adjacent duplicates	https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/	Best Tutorial link - click to view	Article link-click to view		
	Hashing in strings	https://www.geeksforgeeks.org/practice-problems-on-hashing/	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		
	·	https://practice.geeksforgeeks.org/problems/search-pattern-z-algorithm				
	Z - Function	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	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/roman-number-to-integer3201/17; itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=boltom_sti				
	Roman numerals to decimals	cky on Article	Best Tutorial link - click to view	Article link-click to view		
There are couple of more topics, bit man	nipulation, segment trees and AVL trees which has limited number of probs, so do check that	out if you have good amount of time still left				
	ode.com/discuss/general-discussion/1073221/All-about-Bitwise-Operations-Beginner-Interme					
Leetcode Article for behavioural rounds	https://leetcode.com/discuss/interview-experience/1532708/tips-for-answering-few	-tricky-behavioural-interview-questions	1			
Leetcode Article for major patterns	https://leetcode.com/discuss/general-discussion/665604//mportant-and-Useful-link					
		anionnainovernite-LeetCode				
Resume standard template	https://www.overleaf.com/Articles/ravi-kukretis-resume/cxprrkxbccqb					