Curious freaks CODING SHEET by Nandhini
Checkout this video to understand efficient way to use this sheet - https://youtu.be/ALpPSZFok/O
ENROLLMENT OPEN FOR OUR PLACEMENT'S COURSE - https://youtu.be/ALpPSZFok/O
ENROLLMENT OPEN FOR OUR PLACEMENT'S COURSE - https://www.instagram.com/its_me_nandyy
Coutube Channel - https://www.coutube.com/its/coutuberseks_
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.instagram.its.b8/15h4343
Only sheet you need to get placed in super high paying companies including google, amazon, salesforce, microsoft, adobe, etc
Schrieg time - Exp Problems - 5 to thims
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Schrieg time - 6 to the first arch in the tables and then try solving other gooks in the tables

Solving time - Medium Problems - 15 to 2 Solving time - Hard problems - At max 4	5mins - 50mins					1
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 nattern	and then try solving other n	robs in that pattern vourse	ır.	<u> </u>
TOPIC	Problem	Problem link	Solution Tutorial	Solution Article	Solved	Notes
Beginners basic math probs						
	Find even or odd	https://practice.geeksforgeeks.org/problems/fond-or-even3618/1 https://www.geeksforgeeks.org/problems/find-last-digit-of-ab-for-large-	Best Tutorial link - click to view	Article link-click to view		
	Find last digit in a number Count digits in a number(Solving above last digit prob wil make this easy for you)	https://www.geessorgeess.org/problems/nnd-lass-digit-of-as-for-large- numbers/1938/1 https://practice.geeksforgeeks.org/problems/count-digits/5718/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view		
	Reverse a number(Try thinking how you can use above logic in solving this)	https://practice.geekstorgeeks.org/problems/count-digitsb/18/1 https://www.geeksforgeeks.org/problems/reverse-digit0316/1	Best Tutorial link - click to view	Article link-click to view Article link-click to view		
	Find power of a number GCD	https://www.geeksforgeeks.org/problems/power-of-numbers-1587115820/1 https://practice.geeksforgeeks.org/problems/god-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 1164188	Best Tutorial link - click to view			
	Prime number(Try solving by yourself)	https://practice.geeksforgeeks.org/problems/prime-number2314/1	Best Tutorial link - click to view			
	Armstrong number(Solving power of number, will make this easy for you) Check palindrome of number(Use the techniques you learnt so far solving above probs and solve	https://www.geeksforgeeks.org/problems/armstrong-numbers2727/1	Best Tutorial link - click to view	Article link-click to view		
	this by yourself) Square root of a number(Try to first figure out algo to solve this)	https://practice.geeksforgeeks.org/problems/palindrome0748/1 https://www.geeksforgeeks.org/problems/square-root/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view		
	Perfect number	https://practice.geeksforgeeks.org/problems/perfect-numbers3207/1	Best Tutorial link - click to view			
	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					
Array - Data structure Basics with traversal	note down and understand how it is represented					
	What is an array? How 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			
	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/third-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	1587115621/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view		
	Find repeating number in array		Best Tutorial link - click to view	CHARLE HIS SHOWN NO YOUR		
		https://www.geeksforgeeks.org/problems/sort-an-array-of-0s-1s-and- 2s4231/17 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	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)	cky_on_Article	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/check-if-two-arrays-are-equal-or- not3847/12				
	Check if two arrays are equal or not	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/cyclically-rotate-an-array-by- one2614/12				
	Rotate the array by 1	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti_ cky_on_Article	Best Tutorial link - click to view			
	Rotate the array by k	https://www.codingninjas.com/studio/problems/rotate-array_1230543 https://www.geeksforgeeks.org/problems/array-subset-of-another-	Best Tutorial link - click to view			
	Array subset of another array Learn what is map and how its represented before moving forward	array/2317/1	Best Tutorial link - click to view Best Tutorial link - click to view			
	Count frequency of elements in array(Solve efficiently, try applying what you learnt about map)	https://practice.geeksforgeeks.org/problems/frequency-of-array-elements- 1587/15820/1	Best Tutorial link - click to view			
Two pointer(This is very imp pattern, not just for these probs but very				WAY IN THE REAL PROPERTY.		
not just for these probs but very commonly you can use this technique)	Just like search, sort, this is also imp technique to learn	Nilea I I I I I I I I I I I I I I I I I I I				
	Find pair with given sum	https://www.geeksforgeeks.org/problems/key-pair5616/12 ilm_source=geeksforgeeks&ilm_medium=Article&ilm_campaign=bottom_sti- cky_on_Article	Best Tutorial link - click to view	Article link-click to view		
	riio paii wiii given suin	https://www.geeksforgeeks.org/problems/triplet-sum-in-array-	DEST TOTOLIST HIN - CITCA TO VIEW	ALLOE HIS CILK ID VIEW		
	3 Sum	1587115621/17 itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti ckv on Article	Best Tutorial link - click to view	Article link-click to view		
	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	Article link-click to view Article link-click to view		
	Union of two arrays(Learn the brute force & optimal soln, you will learn about set datastructure, which will be super useful in many probs in brute force)	https://www.geeksforgeeks.org/problems/union-of-two-arrays3538/1	Best Tutorial link - click to view			
	when we be super cache in many proba in broad force)	https://www.geeksforgeeks.org/problems/intersection-of-two-arrays2404/17 itm source=seeksforgeeks8itm medium=Article8itm campaign=bottom sti	DESC FACORDI SITIC - CITCA CO VICA	PARICE INVESTOR IO VICTO		
	Intersection of two arrays	cky on Article	Best Tutorial link - click to view	Article link-click to view		
	Remove duplicates from array(Quite diff from above, try to solve on own, this actually shows that	https://www.geeksforgeeks.org/problems/remove-duplicate-elements-from- sorted-arrayl12 itm_source-geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	not always you will have pointers at start and end)	cky_on_Article	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/k-th-element-of-two-sorted- array/1317/12 itm source-geeksforgeeks&itm medium=Article&itm campaign=bottom sti				
	kth element of 2 sorted arrays	cky on Article	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum- k0809/12 itm source=geeksforgeeks&itm medium=article&itm campaign=bottom sti				
	Length of longest subarray with sum k	cky_on_article	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/trapping-rain-water- 1587/11562/1/12 itm_source=geeksforgeeks&irm_medium=Article&irm_campaign=bottom_sti				
Must Solve	Trapping rain water	cky_on_Afficie	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	Article link-click to view		
	Merge intervals	https://leetcode.com/problems/merge-intervals/	Best Tutorial link - click to view			
	Maximum product subarray	https://practice.geeksforgeeks.org/problems/maximum-product- subarray3604/1	Best Tutorial link - click to view			
	Next permutation Seive of eranthoses(Popular algo for prime numbers)	https://leetcode.com/problems/next-permutation/ https://www.geeksforgeeks.org/problems/sieve-of-eratosthenes5242/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view		
Time and space complexity	https://youtu.be/FPu9Uld7W-E?si=s_d8cjdb8UtlVg16 - After learning this, make sure to learn tin	e and space complexity for all the problems moving forward				
Matrix - Data structure	Once you learn this, in many advanced topics like graphs, DP, backtracking, this is super imp. This section is to learn 2D array and to get grip on basics					
Traversal & Basic & Must solve	What is a 2D Array? How to access element?		Best Tutorial link - click to view	Article link-click to view		
	Search in a matrix	https://leetcode.com/problems/search-a-2d-matrix/	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 https://www.geeksforgeeks.org/problems/row-with-minimum-number-of-	pest Tutorial link - click to view	article link-click to view		
		1s5430/12 itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti	D. J. T. J. C. C.			
	Maximum num of 1's row Left rotate matrix k times	https://oractice.geeksforgeeks.org/problems/left-rotate-matrix-k-times2351/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article 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				
	Print matrix in diagonal pattern Set matrix zeros	cky on Afficie https://ketcode.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.	WHEN THE PROPERTY OF THE PROPE	man, 1900 Mar and - Great to VIEW	WAY IN AMERICAN		
Basics	before moving forward Understand what recursion is and how it works(Draw the recursive tree for every recursive prob		Designation of the second	And the second		
DasiCS	you solve)	https://www.geeksforgeeks.org/problems/print-1-to-n-without-using-loops-	Best Tutorial link - click to view			
	Print 1 to N using recursion Factorial of N numbers	https://practice.geeksforgeeks.org/problems/factorial5739/1	Best Tutorial link - click to view Best Tutorial link - click to view			
		https://www.geeksforgeeks.org/problems/hth-fibonacci-number1335/1? ilm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	Fibonacci series using recursion	oky on Article https://www.geeksforgeeks.org/problems/power-of-numbers-1587115620/1?	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.geexstorgeexs.org/problems/power-ol-numbers-166/11662011/ itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky_on_Article	Best Tutorial link - click to view	Article link-click to view		
	Print pattern	https://www.geeksforgeeks.org/problems/print-pattern3549/17 page=1&category=Recursion&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view			
	4	https://espetics.gog/ofsressle.gog/esphage/implement.eta/113	THE STATE OF THE S	200000000000000000000000000000000000000		
	Recursive implementation of atoi	um source-geekstrogeeks&utm medium=ml. Article practice tab&utm_ca mpsign=Article practice tab	Best Tutorial link - click to view	Article link -click to view		
	Pascal triangle	https://www.geeksforgeeks.org/problems/pascal-triangle0852/12 page=1&category=Recursion&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link -click to view		
Binary Search - Algo	https://leetcode.com/discuss/general-discussion/691825/Binary-Search-for-Beginners-Problems-or- Patterns-or-Sample-solutions					
Basic pattern		https://www.geeksforgeeks.org/problems/who-will-win-1587115821/12				
	Search in a sorted array(Efficiently -> So learn binary search for this)	page=1&category=Binary%20Search&sortBy=submissions https://www.neeksforpeeks.org/problems/floor-in-a-sorted-array-	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-	Best Tutorial link - click to view	Article link-click to view		
	Find first and last occurence of element in sorted array	x3116/1?page=1&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view		
	Find missing num from 1 to N	https://leetcode.com/problems/missing-number/ https://www.geeksforgeeks.org/problems/square-root/1?	Best Tutorial link - click to view	Article link-click to view		
	Find square root	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky on Article	Best Tutorial link - click to view	Article link-click to view		
	Search for element in infinite array	https://www.codingninjas.com/studio/problems/search-in-infinite-sorted-0-1- array_696193	Best Tutorial link - click to view			
Sorted rotated array	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- rotated-array-1587115620/17oage=1&category=Binary%	Best Tutorial link - click to view	asside link dick 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 cky_on_Article	Best Tutorial link - click to view	Article link click to view	
	Maximum element in sorted rotated array		Best Tutorial link - click to view		
Biotonic array		https://www.geeksforgeeks.org/problems/peak-element/12 page=1&category=Arrays&difficulty=Medium&status=solved&sortBy=submis			
	Find the peak element	sions	Best Tutorial link - click to view		
Matrix	Search element in biotonic array	https://www.interviewbit.com/problems/search-in-bitonic-array/	Best Tutorial link - click to view	Article link click to view	
		https://www.geeksforgeeks.org/problems/binary-matrix-having-maximum- number-of-1s-170847/17page=2&category=Binary%			
	Find row with maximum number of 1's	20Search&sortBy=submissions https://www.geeksforgeeks.org/problems/search-in-a-matrix-1587115821/17	Best Tutorial link - click to view	Article link-click to view	
	Search in row wise column wise sorted matrix	https://www.geesstorgeeks.org/problems/search-in-a-marrix-106/1106/11/1/ 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	
Application(Super imp)	Find peak in sorted matrix	https://leetcode.com/problems/find-a-peak-element-ii/	Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Aggressive cows	https://www.geeksforgeeks.org/problems/aggressive-cows/12 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- pages/9937/17			
	Allocate minimum pages	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Painter partition	https://www.geeksforgeeks.org/problems/the-painters-partition- problem1535/1?page=1&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Split array largest sum	https://www.geeksforgeeks.org/problems/split-array-largest-sum141634/12 page=2&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimum num of days to make m bouquets	https://leetcode.com/problems/minimum-number-of-days-to-make-m- bouquets/	Best Tutorial link - click to view		
	Capacity to ship packages within D days	https://www.geeksforgeeks.org/problems/capacity-to-ship-packages-within- d-days/1?page=2&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view		
	koko eating bananas kth smallest number in matrix multiolication table	https://leetcode.com/problems/koko-eating-bananas/	Best Tutorial link - click to view	Article link-click to view	
	kth smallest number in matrix multiplication table	https://leetcode.com/problems/kth-smallest-number-in-multiplication-table/ 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		
	Find smallest divisor given threshold	Find the Smallest Divisor Given a Threshold - LeetCode		Article link-click to view	
Sorting - Algo	Make sure to completely understand the algo thoroughly, and time & space complexity	https://www.geeksforgeeks.org/problems/bubble-sort/1?			
Basics	Bubble sort(very basic sorting technique)	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/selection-sort/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	Selection sort	cky on Article https://www.geeksforgeeks.org/problems/insertion-sort/1?	Best Tutorial link - click to view	Article link-click to view	
	Insertion sort	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
		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	Completely understand how Node in linked ist is represented and then no ahead with the natterns		Best Tutorial link - click to view	Addisto Data effort to	
	Create, Insert, Delete Operations in LL		Best Tutorial link - click to view	Article link-click to view	
	Search for an element in LL(Once create, insert is done, this should be easy)	https://www.geeksforgeeks.org/problems/search-in-linked-list-1684434326/1 https://www.geeksforgeeks.org/problems/reverse-a-linked-list/12	Best Tutorial link - click to view	Article link-click to view	
	Reverse a LL(Learn the O space approach, learn recursive & iterative soln)	https://www.geeksforgeeks.org/problems/check-if-linked-list-is- bilips://www.geeksforgeeks.org/problems/check-if-linked-list-is-	Best Tutorial link - click to view		
	Check if LL is a Palindrome(Once reversing is learnt, this should be easy)	https://www.geesstorgeess.org/problems/cneck-th-inked-list-ts- pallindrome/1?page=1&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/insert-in-middle-of-linked-list/1?	Best Tutorial link - click to view	Article link - click to view	
	Middle element of LL (Learn efficient approach)	https://www.geeksforgeeks.org/problems/insert-in-middle-ol-linked-list/17/ page=2&categon=Linked%20Lis&sortBy=submissions https://www.geeksforgeeks.org/problems/intersection-point-in-y-shapped-	Best Tutorial link - click to view	Article link - click to view	
	Find the intersection point of Y LL(Once you know traversal, apply node logic to solve this)	linked-lists/1?page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view	
	Union and Intersection of LL	https://www.geeksforgeeks.org/problems/union-of-two-linked-list/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti cky_on_Article	Rest Tutorial link - elink to visco	Article link - click to view	
	Union and Intersection of LL Delete without head pointer	cky on Article https://www.geeksforgeeks.org/problems/delete-without-head-pointer/12	Best Tutorial link - click to view		
		page=1&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/count-pairs-whose-sum-is-equal-	Best Tutorial link - click to view Best Tutorial link - click to view		
	Count pairs with given sum Reverse LL in groups of given size(Once you learn reverse of LL's efficient approach, you can try	to:x/17page=2&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of- given-size/17page=1&category=Linked%20List&sortBy=submissions			
Loop	this)	given-size/1?page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view	
	Detect loop in LL(Once this is learnt, all the loop pattern probs below should be easy)	https://www.geeksforgeeks.org/problems/detect-loop-in-linked-list/1? page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view	
	Find length of loop in LL	https://www.geeksforgeeks.org/problems/find-length-of-loop/12 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-list-170845/1	Best Tutorial link - click to view		
	Remove the loop	https://www.geeksforgeeks.org/problems/remove-loop-in-linked-list/12 page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view		
Sorting, Merging & Related			Best Tutorial link - Click to view	Affice link - click to view	
	Sort 0s, 1s, 2s in LL	https://www.geeksforgeeks.org/problems/given-a-linked-list-of-0s-1s-and-2s- sort-it/1?page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/pairwise-swap-elements-of-a- linked-list-by-swapping-data/1?page=2&category=Linked%			
	Pairwise swap elements Merge k sorted LL(Merge two sorted is easy version of this ques, if you are finding it diff to come up		Best Tutorial link - click to view		
	with logic, first solve that)	page=1&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/sort-a-linked-list/12	Best Tutorial link - click to view		
	Merge sort in LL	page=2&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/guick-sort-on-linked-list/1?	Best Tutorial link - click to view	Article link-click to view	
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	Maximum rectangular area on histogram(Once next greater and next smallest pattern is covered, this can be solved easily)	https://www.geeksforgeeks.org/problems/maximum-rectangular-area-in-a- histogram-1587115620/17page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Max rectangle(Same as above, just a small twist)	https://www.geeks.org/problems/msx-rectangle/12 page=18category=Stack8sortBy=submissions	Best Tutorial link - click to view		
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	Infix to postfix	https://www.geeksforgeeks.org/problems/infix-to-postfix-1587115820/17 page=2&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Evaluation of postfix expression	https://www.geeksforgeeks.org/problems/evaluation-of-postfix- expression1735/1?page=2&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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Burney and a	Arithmetic expression evaluation	https://www.codingninjas.com/studio/problems/arithmetic-expression- evaluation_1170517	Best Tutorial link - click to view	Article link-click to view	
Reversing stack		https://www.geeksforgeeks.org/problems/insert-an-element-at-the-bottom-of- a-stack/17page=4&category=Stack&sortBy=submissions			
	Insert at bottom of stack	a-stack/17page=4&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/reverse-a-stack/17	Best Tutorial link - click to view	Article link-click to view	
	Reverse a stack	page=2&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/sort-a-stack/12	Best Tutorial link - click to view	Article link-click to view	
Implementation probs	Sort stack(Solving above two can give you hint for this)	page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Implementation probs		https://www.geeksforgeeks.org/problems/the-celebrity-problem/12			
	Celebrity problem	page=1&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/restrictive-candy-crush141631/12 page=2&category=Stack&sortBy=submissions	Best Tutorial link - click to view		
	Restrictive candy crush	page=2&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/count-the-reversals0401/12			
Queue - Data structure	Count the reversals	page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Basic pattern					
	What is queue? Learn the basic representation and how its implemented?	https://www.geeksforgeeks.org/problems/implement-queue-using-array/12 page=18category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Implement queue using linkedlist	https://www.geeksforgeeks.org/problems/implement-queue-using-linked- list/1?page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Implement queue using stack(super imp)	https://www.geeksforgeeks.org/problems/queue-using-two-stacks/1? page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view		
	Implement stack using queue(super imp)	https://www.geeksforgeeks.org/problems/stack-using-two-queues/12 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 page=18.category=Queue&sortBy=submissions	Best Tutorial link - click to view		
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	Circular tour	https://www.geeksforgeeks.org/problems/circular-tour-1587115620/12 page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	First non repeating char in stream	https://www.geeksforgeeks.org/problems/first-non-repeating-character-in-a- stream1216/17page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view		
	Reverse first k elements in queue	https://www.geeksforgeeks.org/problems/reverse-first-k-elements-of- queue/17page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view		
	LRU Cache(super imp)	https://www.geeksforgeeks.org/problems/flu-cache/12 page=18category=Queue&sortBy=submissions	Best Tutorial link - click to view		
	Minimum cost of roces	https://www.geeksforgeeks.org/problems/minimum-cost-of-rones-	Best Tutorial link - click to view		
	Minimum cost of ropes Nearly sorted(Learn priority queue for sure)	1587115620/17page=1&category=Queue&sortBy=submissions https://www.geeksforgeeks.org/problems/nearly-sorted-1587115620/17			
Sliding Window - Technique	The state of the s	https://leatrode.com/problems/find-all-anarrame.in-a-	Best Tutorial link - click to view	Audie link-cick to view	
(Dont skip this topic, I personally have been asked this topic in many interviews	GeekForGeeks has very limited probs in this topics, so use leetcode for this even if you practice on gfg generally	naps://eccode.com/problems/ind-ai-aragrams-in-a- string/solutions/92007/silding-window-algorithm-template-to-solve-all-the- leetcode-substring-search-problem/			
Fixed Sliding Window(Size of the window will be provided)					
		https://www.geeksforgeeks.org/problems/max-sum-subarray-of-size- k5313/12			
	Maximum sum subarray of size k	k8313/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- ckv_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Assumum sum subarray of size k Count distinct element in every window(Once you understoor handling window size fixed from above grob, this will be easy)	https://www.geeksforgeeks.org/problems/count-distinct-elements-in-every-	Best Tutorial link - click to view		
	,	window/17page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/first-negative-integer-in-every-	Sout Tutonal InK - Click to view	AND THE PROPERTY OF THE PROPER	
	First negative integer in every window of size k(Try to solve on own before looking for soln since you did above topics too already	window-of-size-k3345/12 page=18category=sliding- window8sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum of all subarray of size k(Try to solve on own)	https://www.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size- k3101/17page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Count substring of length k with k-1 distinct elements	https://www.geeksforgeeks.org/problems/substrings-of-length-k-with-k-1- distinct-elements/12page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum of minimum for every window(Imp)	https://www.geeksforgeeks.org/problems/maximum-of-minimum-for-every- 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)					
solve everything)		https://www.geeksforgeeks.org/problems/subarray-with-given-sum-			
	Subarray with given sum	1587115621/17page=18category=sliding-window8sortBy=submissions https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-	Best Tutorial link - click to view		
	Longest subarray with given sum k(Same as above with slight modification)	k0809/1?page=1&category=sliding-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	158711582177page=18category=sliding-window8sorBy=submissions https://www.geeksforgeeks.org/problems/smallest-distant-window3132/12	Best Tutorial link - click to view	Article link-click to view	
	Smallest window of distinct elements	page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Smallest window containing 0,1,2	https://www.geeksforgeeks.org/problems/smallest-window-containing-0-1- and-2170837/1?page=2&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/smallest-window-in-a-string- containing-all-the-characters-of-another-string-1587115821/12			
	Smallest window in string containing all chars of another string	page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/length-of-the-longest-	Best Tutorial link - click to view		
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	Count of anagram occurence(Super imp) Max consecutive ones III	anagrams5839/1?page=1&category=sliding-window&sortBy=submissions https://eetcode.com/problems/max-consecutive-ones-iii/	Best Tutorial link - click to view Best Tutorial link - click to view		
	Fruit into basket	https://leetcode.com/problems/fruit-into-baskets	Best Tutorial link - click to view	Article link-click to view	
	Count number of nice subarrays Longest repeating char replacement	https://leetcode.com/problems/count-number-of-nice-subarrays/ https://leetcode.com/problems/longest-repeating-character-replacement	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	Minimum window substring	https://leetcode.com/problems/minimum-window-substring/description/	Best Tutorial link - click to view	Autialo link alink to view	
	Minimum window subsequence(Understand the diff between subarray and subsequence before starting this prob)			Atticle link-click to view	
		https://leetcode.com/problems/minimum-window-subsequence/	Best Tutorial link - click to view	Article link-click to view	
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Binary Search Tree(Once the above 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		
	Insert a node in BST Search a value in BST(Learn efficient algo to do it, since this can be handled efficiently in BST than	https://leetcode.com/problems/insert-into-a-binary-search-tree/	Best Tutorial link - click to view	Article link-click to view	
	BT) Search a value in BS1 (Learn emclent algo to do it, since this can be handled emclently in BS1 than BT)	https://practice.geeksforgeeks.org/problems/search-a-node-in-bst/1	Best Tutorial link - click to view	Article link-click to view	
	Find minimum and maximum in BST	https://www.geeksforgeeks.org/problems/max-and-min-element-in-binary-tree/12page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Find the Kth largest element/kth Smallest in BST(Try to solve it without looking for soln, once you have mastered all the above patterns, this should be easy)	https://www.geeksforgeeks.org/problems/kth-largest-element-in-bst/12 page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Check for BST(Try solving probs in this pattern by yourself till LCA once above are solved)	https://www.geeksforgeeks.org/problems/check-for-bst/1? page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Find the closest element in BST	https://www.geeksforgeeks.org/problems/find-the-closest-element-in-bst/12 page=3&categony=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Count BST nodes in the given range	https://www.geeksforgeeks.org/problems/count-bst-nodes-that-lie-in-a-given- 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 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/1?page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Merge two BST(Super imp - Must solve)	https://www.geeksforgeeks.org/problems/merge-two-bst-s/17 page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Inorder successor and predecessor	https://www.geeksforgeeks.org/problems/predecessor-and-successor/12 page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Populate inorder successor for all nodes	https://www.geeksforgeeks.org/problems/populate-inorder-successor-for-all- nodes/1?page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to vieww	
	BST to greater sum tree	https://www.geeksforgeeks.org/problems/bst-to-greater-sum-tree/17 page=8&category=Tree&sortBv=submissions	Best Tutorial link - click to view	Article link-click to view	
Construct from given	Delete given node from BST	https://leetcode.com/problems/delete-node-in-a-bst/	Best Tutorial link - click to view	Article link-click to view	
Construct from given	Construct Binary Tree from Preorder and Inorder Traversal (First understand the concept of how to	https://www.geeksforgeeks.org/problems/construct-tree-1/17			
	derive at the solution, then start coding it by yourself) Construct Binary Tree from Inorder and Postorder Traversal	page=1&category=Tree&sortBy=submissions https://eetcode.com/problems/construct-binary-tree-from-inorder-and- postorder-traversaV	Best Tutorial link - click to view		
	Construct BST from given preorder traversal	https://www.geeksforgeeks.org/problems/construct-tree-from-preorder-	Best Tutorial link - click to view		
	Construct BT from parent array	traversal/17page=7&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/construct-binary-tree-from-parent-	Best Tutorial link - click to view Best Tutorial link - click to view		
Subtree & Other must do tree probs	Construct B I from parent array	array/17page=5&category=Tree&sortBy=submissions	Best Tutonal link - click to view	Article link-click to view	
	Serialize and deserialize BT	https://www.geeksforgeeks.org/problems/serialize-and-deserialize-a-binary- tree/1?page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Largest subtree sum in a tree	https://www.geeksforgeeks.org/problems/largest-subtree-sum-in-a-tree/12 page=6&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum sum of non adjacent nodes	https://www.geeksforgeeks.org/problems/maximum-sum-of-non-adjacent- nodes/1?page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Duplicate subtree	https://www.geeksforgeeks.org/problems/duplicate-subtrees/17 page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Flatten BT to linked list	https://www.geeksforgeeks.org/problems/flatten-binary-tree-to-linked-list/12 page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
Backtracking & Recursion		https://leetcode.com/discuss/general-discussion/680269/a- general-approach-to-backtracking-problems-in-cexhaustive-			
advanced - Technique Basic patterns and must solve(Each	This is super imp topic before moving further!! Draw the recursion tree to understand the flow as the first step, this will help in visualization of the flow	searching			
prob in this pattern will teach you					
something and also as you solve, you 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- string2041/1?page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Permutation II (You can solve on own once you solve above)	https://leetcode.com/problems/permutations-ii https://www.geeksforgeeks.org/problems/combination-sum-1587115620/12	Best Tutorial link - click to view		
	Combination sum II Combination sum III(Once you solve combination I, you should be able to solve this and below 2	https://www.geekstorgeeks.org/problems/combination-sum-158/115620/17 page=18category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Combination sum III(Once you solve combination I, you should be able to solve this and below 2 probs too easily) Combination sum III	https://eetcode.com/problems/combination-sum-ii	Best Tutorial link - click to view		
		https://leetcode.com/problems/combination-sum-iii https://www.geeksforgeeks.org/problems/rat-in-a-maze-problem/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Rat in maze(Once above probs are solved, you can do this easily)	https://www.geeksforgeeks.org/problems/possible-words-from-phone-digits-	Best Tutorial link - click to view		
	Possible words from phone digits	1587115620/17page=1&category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/subsets-1613027340/17	Best Tutorial link - click to view		
	Subsets	page=1&category=Backtracking&cortBy=submissions https://www.geeksforgeeks.org/problems/subsets-1587115621/17 page=1&category=Backtracking&cortBy=submissions	Best Tutorial link - click to view		
	Unique subset(Solving above, you will be able to solve this easily)	https://www.geeksforgeeks.org/problems/n-gueen-problem0315/12	Best Tutorial link - click to view		
	N-Queen(Super imp) N Queen II	page=1&category=Backtracking&sortBy=submissions https://leetcode.com/problems/n-queens-ii	Best Tutorial link - click to view	Article link-click to view	
	Permutation with spaces	https://www.geeksforgeeks.org/problems/permutation-with-spaces3627/17 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/17page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Generate IP address	https://www.geeksforgeeks.org/problems/generate-ip-addresses/12 page=1&category=Backtracking&cortBy=submissions	Best Tutorial link - click to view		
	Solve the sudoku	https://www.geeksforgeeks.org/problems/solve-the-sudoku-1587115821/12 page=18-category=Backtracking&sorfBy=submissions	Best Tutorial link - click to view		
	kth permutation	https://www.geeksforgeeks.org/problems/find-kth-permutation/1? page=2&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Word search	https://www.geeksforgeeks.org/problems/word-search/12 page=3&category=Graph&soffby=submissions	Best Tutorial link - click to view		
	Trod scarcii	https://www.geeksforgeeks.org/problems/find-all-possible-palindromic-	DESCRIPTION OF SHARE OF SHARE	CHARLE SELECTION DO TRANS	
	Palindrome partition of string	partitions-of-a-string112 page=2&category=Backtracking&sortBy=submissions https://www.geeksforceeks.grg/problems/decode-the-string2444/12	Best Tutorial link - click to view	Article link-click to view	
	Decode the string	page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Letter case permutation	https://eetcode.com/problems/letter-case-permutation/ https://www.geeksforgeeks.org/problems/sum-string3151/12	Best Tutorial link - click to view		
	sum string word boggle	page=1&category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/word-boggle4143/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view Best Tutorial link - click to view		
	word boggle Largest number in k swaps	page=1&category=Backtrackng&sortBy=submissions https://www.geeksforgeeks.org/problems/largest-number-in-k-swaps- 158711562017page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Partition array to k subsets	https://www.geeksforgeeks.org/problems/partition-array-to-k-subsets/12	Best Tutorial link - click to view		
Graphs - Data structure	Most of the probs in this topics can be solved once you learn first couple of probs in each pattern of	https://eecode.com/discuss/general-discussionionionionionionionionionionionionioni	SEST TOTOLIST THE - CHEK TO VIEW	And the Color Division	
Traversals & Basic	Understand how graph is represented?	peginners-prouterns-paniern-sample-solutions.	Best Tutorial link - click to view		
	BFS Traversal(Super imp and basic)	https://www.geeksforgeeks.org/problems/bfs-traversal-of-graph/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	DFS Traversal(Super imp and basic)	https://www.geeksforgeeks.org/problems/depth-first-traversal-for-a-graph/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Detect cycle in Directed graph	https://www.geeksforgeeks.org/problems/detect-cycle-in-a-directed-graph/1? page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Detect cycle in Undirected graph	https://www.geeksforgeeks.org/problems/detect-cycle-in-an-undirected- graph/1?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Detect Negative cycle in graph	https://www.geeksforgeeks.org/problems/negative-weight-cycle3504/12 page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Connected component(After traversal, this will be easy to solve)					
	Connected component(Once you master this , all the below using this pattern will become super easy)	https://practice.geeksforgeeks.org/problems/strongly-connected-component- tarianss-algo-1587115621/1	Best Tutorial link - click to view	Article link-click to view	
	Number of Provinces(Learn how to solve this prob and solve the below in this pattern)	https://www.geeksforgeeks.org/problems/number-of-provinces/12 page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Number of Islands	https://www.geeksforgeeks.org/problems/find-the-number-of-islands/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Number of distinct island	https://www.geeksforgeeks.org/problems/number-of-distinct-islands/12 page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Pirantin	Number of closed island	https://www.geeksforgeeks.org/problems/find-number-of-closed-islands/12 page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Bipartite	State and	https://www.geeksforgeeks.org/problems/bipartite-graph/12 page=1&category=Graph&sortBy=submissions		And the second	
	Bipartite graph	https://practice.geeksforgeeks.org/problems/m-coloring-problem-	Best Tutorial link - click to view		
	M-colouring	1587115620/1 https://www.codingninjas.com/studio/problems/shortest-path-in-an-	Best Tutorial link - click to view		
Shortest Path	Find shortest path in UG(Once you learn this, try to solve other probs in this pattern by yourself)	umweighted-graph 981297 https://www.geeksforgeeks.org/problems/shortest-path-in-undirected- graph/1?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Find shortest path in DAG	https://www.geeksforgeeks.grg/problems/implementing-diikstra-set-1-	Best Tutorial link - click to view		
	Djikstra Algo	adjacency-matrix/1?page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/steps-by-knight5927/1?	Best Tutorial link - click to view		
	Step by Knight	page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/shortest-source-to-destination-	Best Tutorial link - click to view		
	Shortest path source to destiny	path3544/1?page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/find-whether-path-exist5238/12	Best Tutorial link - click to view		
	Find if path exists	https://www.geeksforgeeks.org/problems/covid-spread141631/12	Best Tutorial link - click to view		
	Covid spread	page=4&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/minimum-cost-path3833/12	Best Tutorial link - click to view		
	Minimum cost path	page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/word-ladder/12	Best Tutorial link - click to view		
	Word ladder I	page=3&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/word-ladder-ii/12	Best Tutorial link - click to view		
	Word ladder II	https://www.geeksforgeeks.org/problems/implementing-floyd-	Best Tutorial link - click to view		
	Floyd warshal algo	warshall 2042/17page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/distance-from-the-source-bellman-	Best Tutorial link - click to view		
		general genera	Best Tutorial link - click to view	Article link-click to view	
Multi Source	Bellmanford algo(Imp - Will be used for negative cycle)	ford-algorithm/1?page=2&category=Graph&sortBy=submissions			
Multi Source	Bellmanford algo(Imp - Will be used for negative cycle) Flood fill	https://www.geeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=1&category=Graph&ortBy=submissions		Article link-click to view	
Multi Source		https://www.geeksforgeeks.org/problems/flood-fill-algorithm1858/17	Best Tutorial link - click to view Best Tutorial link - click to view		
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Multi Source	Flood fill Replace O's with XsjBelow can be solved easily in this pattern once you learnt flood fill) Unit area of largest region of 1s	bitos://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bitos://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bitos://www.qeeksforgeeks.org/problems/flood-fill-org/problems/flood-f	Best Tutorial link - click to view Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
Multi Source Topological sort	Flood fill Replace O's with Xs(Below can be solved easily in this pattern once you learnt flood fill)	https://www.creeksforceeks.com/problems/flood-fillsalporithm1856/17 page=16-astepony-Graph-Bootfily-submissions blook/www.greeksforceeks.com/problems/freelace-as-ewith-su0052/12 page=16-astepony-Graph-Bootfily-submissions	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	

	Topological sort algo(Learning this algo, will make you solve all the probs in this pattern)	https://www.geeksforgeeks.org/problems/topological-sort/12 page=1&category=Graph&sorfby=submissions	Best Tutorial link - click to view	Article link-click to view	
	Prerequisite tasks	https://www.geeksforgeeks.org/problems/prerequisite-tasks/1?	Best Tutorial link - click to view		
		page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/course-schedule/1?			
	Course schedule I	page=3&category=Graph&sortBy=submissions https://leetcode.com/problems/course-schedule-ii	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Eventual safe states	https://www.geeksforgeeks.org/problems/eventual-safe-states/17 page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/alien-dictionary/12			
Minimum Spanning Tree	Alien dictionary	page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimum spanning tree(Once you learn this, then you will be able to solve the probs in this pattern by yourself)	https://www.geeksforgeeks.org/problems/minimum-spanning-tree/17 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.codingninias.com/studio/problems/code-kruskal-s-			
	Kruskals algo Minimum cost to connect cities	algorithm_6320 https://leetcode.com/problems/connecting-cities-with-minimum-cost	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Minimum cost to connect all points	https://leetcode.com/problems/min-cost-to-connect-all-points/	Best Tutorial link - click to view	Article link-click to view	
Disjoint set	Optimize water distribution	https://leetcode.com/problems/optimize-water-distribution-in-a-village	Best Tutorial link - click to view	Article link-click to view	
	Learn the disjoint set Algo		Best Tutorial link - click to view		
	Union by rank, path compression(Super imp, dont skip)	https://leetcode.com/problems/number-of-operations-to-make-network-	Best Tutorial link - click to view	Article link-click to view	
	Networks connected	connected/ https://www.geeksforgeeks.org/problems/minimum-swaps/12	Best Tutorial link - click to view	Article link-click to view	
	Minimum swaps to sort	page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/santa-banta2814/12	Best Tutorial link - click to view	Article link-click to view	
	Santa Banta	page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Number of pairs	https://www.geeksforgeeks.org/problems/number-of-pairs-1845358985/1? page=5&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Number of Island II Making a large island	https://leetcode.com/problems/number-of-islands-ii/ https://leetcode.com/problems/making-a-large-island	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
Must solve imp algos	making a large island		Dest Totorial link - Citck to view	AUGE HIN CIGA ID VEW	
	Bridges in graph	https://www.geeksforgeeks.org/problems/bridge-edge-in-graph/12 page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Articulation point	https://www.geeksforgeeks.org/problems/articulation-point-1/17 page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Critical connection	https://www.geeksforgeeks.org/problems/critical-connections/12 page=5&category=Graph&ortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/strongly-connected-components-			
	Kosaraja algo (Strongly connected component algo) Word boggle	kosarajus-algo/1?page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/word-boggle4143/12	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	Word boggle II	https://www.geeksforgeeks.org/problems/word-boggle-ii141631/1?	Best Tutorial link - click to view	Article link-click to view	
Greedy - Technique Basics and must solves					
	Minimum number of jumps	https://www.geeksforgeeks.org/problems/minimum-number-of-jumps- 1587115620/17page=18.category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimum operations	https://www.geeksforgeeks.org/problems/find-optimum-operation4504/12 page=1&category=Greedy&sorfBy=submissions		Article link-click to view	
		https://www.geeksforgeeks.org/problems/minimize-the-sum-of-			
	Minimize the sum of product	product1525/1?page=1&category=Greedy&sortBy=submissions https://www.geeksforgeeks.org/problems/largest-number-possible5028/1?	Best Tutorial link - click to view		
	Largest number possible	page=1&category=Greedy&sortBy=submissions https://www.geeksforgeeks.org/problems/lemonade-change/1?	Best Tutorial link - click to view		
	Lemonade change	page=2&category=Greedv&sortBv=submissions	Best Tutorial link - click to view	Article link-click to view	
	Activity selection prob(Super imp)	https://www.geeksforgeeks.org/problems/activity-selection-1587115620/12 page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	N meetings in a room(Super imp)	https://www.geeksforgeeks.org/problems/n-meetings-in-one-room- 1587115620/17page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimum platforms	https://www.geeksforgeeks.org/problems/minimum-platforms- 1587115620/17page=18category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimize the height	https://www.geeksforgeeks.org/problems/minimize-the-heights-i/12 page=2&category=Greedy&sortBy=submissions	Best Tutorial link - click to view		
	Minimum number of coins using greedy(This can be solved using naive, DP also but make sure to	https://www.geeksforgeeks.org/problems/-minimum-number-of-coins4428/11			
	use greedy here)	https://www.geeksforgeeks.org/problems/job-sequencing-problem-	Best Tutorial link - click to view		
	Job sequencing prob	1587115620/17page=18category=Greedy&sortBy=submissions https://www.geeksforgeeks.org/problems/fractional-knapsack-	Best Tutorial link - click to view		
	Fractional knapsack	1587115620/1?page=1&category=Greedy&sortBy=submissions https://www.geeksforgeeks.org/problems/jump-game/1?	Best Tutorial link - click to view	Article link-click to view	
	Jump game Insert interval	page=2&category=Greedy&sortBy=submissions https://leetcode.com/problems/insert-interval/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Merge interval	https://leetcode.com/problems/merge-intervals/	Best Tutorial link - click to view		
	Non overlapping interval	https://leetcode.com/problems/non-overlapping-intervals/ https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes-	Best Tutorial link - click to view	Article link-click to view	
	Minimum cost of ropes Partition labels	1587115620/1	Best Tutorial link - click to view		
	Partition labels Cinema seat allocation	https://lectcode.com/problems/partition-labels/ https://lectcode.com/problems/cinema-seat-allocation/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Max length chain	https://www.geeksforgeeks.org/problems/max-length-chain/17 page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Valid parantheses - Minimum	https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/	Best Tutorial link - click to view	Article link-click to view	
	Shortest job first	https://practice.geeksforgeeks.org/problems/shortest-job-first/1 https://practice.geeksforgeeks.org/problems/tru-cache/1?	Best Tutorial link - click to view	Article link-click to view	
	Shortest job first Least recently used	https://practice.geeksforgeeks.org/problems/shortest-job-first/1 https://practice.geeksforgeeks.org/problems/fu-cache/12 utm_source-syoutube&utm_medium=collab_fraz_websitelink&utm_campaigs_ st_RU+Cache			
	Least recently used	https://practice.geeksforgeeks.org/problems/ru-cache/17 utm_source=youtube&utm_medium=collab_fraz_webaitelink&utm_campaig =LRU+Cache	Best Tutorial link - click to view		
Dynamic Programming - Technique		https://practice.geeksforgeeks.org/problems/lru-cache/12 utm_source=voutube&utm_medium=collab_fraz_websitelink&utm_campaig	Best Tutorial link - click to view		
Dynamic Programming - Technique Basic	Least recently used DP is super crucial logic and very commonly asked in many interviewell. One major thing you need to two vis. don't start with tabulation approach directly, these wrong way to learn DP. First find the solution using recursion, then memoization and then finally tabulation and space reduction in tabulation.	https://practice.geeksforgeeks.org/problems/ru-cache/17 utm_source=youtube&utm_medium=collab_fraz_webaitelink&utm_campaig =LRU+Cache	Best Tutorial link - click to view Rest Tutorial link - click to view	Article link-dick to view	
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Technique Basic 10 - Linear DP	Last recently used Do a love - used spic and -sy commonly abed in many riselvenant? One major things you need Do a love - used spic and -sy commonly abed in many riselvenant? One major things you need Do two rise dood state with bloodson approach directly, thats every any to learn DP. First find the solution sany recursion, then memoration and then finally labulation and space reduction in Understand the basical? Count num of hops Count way to reach nith stair(Order disearn't matter) Focuser robber Focuser public Count paths - grid Count paths - grid Count paths - grid	Intelligence of the control of the c	Best Tutorial link - click to view	Article link click to view	
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Technique Basic 10 - Linear DP	Last recently used Do a love - used legic and -sy commonly asked in many risk-viewal? One major florg you need Do a love - used legic and -sy commonly asked in many risk-viewal? One major florg you need Do a love reside of the religion of the recent of the recent of the solution and space reduction in Understand the basical? Court num of hops Court way to reach nith stair(Order doesn't matter) House robber 1 Court paths - grid Unique paths all Court paths - grid May path sum in grid May path sum	bites direction president process comproblements us carbot 12 miles un process of the comproblement of the comprob	Best Tutorial link - click to view	Article link click to view	
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Technique Basic 10 - Linear DP	Lated recently used 20 is separe crose foot end eye commonly asked in many ster-level if One major bing you need 20 is separe crose foot end eye commonly asked in many ster-level if One major bing you need 20 is separed to be a separed to be a separed of ending the separed of ending the separed of ending the souldown and space reduction in 20 is separed to be basical? 20 is separed to be	bites (Interdice genésitiqueels organisationnals au carbet III au source qualitation au carbet III au source qualitation (Interdice genésitiqueels) (Interdi	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP	Least recently used Die sow - uses tips and -ey commonly asked in many interviewal One major thing you need to be a fore- used tips and ey commonly asked in many interviewal One major thing you need to know in do that with bloadson approach directly, thats every any to learn DR First you need to souldon using lecurson, then memoration and then firstly tabulation and space reduction in Uniderstand the basical! Count num of hops Count way to reach nith stair(Order matters) Count way to reach nith stair(Order matter) House robber II Count paths - grid Unique passible paths with condition(You can solve this by yourself once above two are solved) Max path sum Minimum path sum in triangular grid Max path sum Minimum paths sum in triangular grid Number of paths with x coins	bites direction enterlishingeries cognocidements us carbot 12 miles and under the common process of the common	Best Tutorial link - click to view	Article link-click to view	
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Technique Basic 10 - Linear DP 20 Grid DP	Litted recently used 20 is separative force and eye commonly asked in many interviewal. One major thing you need 20 is separative force and eye commonly asked in many interviewal. One major thing you need 20 is separative force and interview interviewal interview and plan finally labulation and space reduction in 20 is a separative force and eye of the basical? 20 curd runn of hops 20 curd way to reach rish stair(Order matters) 20 curd way to reach rish stair(Order matters) 20 curd way to reach rish stair(Order doesn't matter) 20 curd paths - grid 20 curd paths - grid 20 curd all possible paths with condition(You can solve this by yourself once above his are solved) 20 minimum path sum in grid 21 Number of paths with it contis 22 minimum baths us in is largular grid 23 Number of paths with it coins 23 minimum baths yourself in paths sum it	bites (universide a periodismination and part of the control of th	Best Tutorial link - click to view	Article link-click to view	
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Technique Basic 10 - Linear DP 20 Grid DP	Litted recently used 20 is separative force and eye commonly asked in many interviewal. One major thing you need 20 is separative force and eye commonly asked in many interviewal. One major thing you need 20 is separative force and interview interviewal interview and plan finally labulation and space reduction in 20 is a separative force and eye of the basical? 20 curd runn of hops 20 curd way to reach rish stair(Order matters) 20 curd way to reach rish stair(Order matters) 20 curd way to reach rish stair(Order doesn't matter) 20 curd paths - grid 20 curd paths - grid 20 curd all possible paths with condition(You can solve this by yourself once above his are solved) 20 minimum path sum in grid 21 Number of paths with it contis 22 minimum baths us in is largular grid 23 Number of paths with it coins 23 minimum baths yourself in paths sum it	https://www.enkinoreeks.org/arcidems/our-day-12 / Language Committee Committ	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Lated recertify used ### Service country to be a control of the processor	bites (unrealised an enterlation enterlation and unrealised to activate of a second and unrealised and unrealis	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Litted recently used 20 is separe crose foot end eye commonly asked in many ster-viewed if One major thing you need 20 is separe crose foot end eye commonly asked in many ster-viewed if One major thing you need 20 is separed to the control of	bites direction and shorteness conjunctions may be under the control of the contr	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Least recertly used ### Section of the Common and Comm	https://www.enkinoreeks.org/arcidems/our-ale/article/a	Best Tutorial link - click to view Best Statorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Litted recently used 20 is separe crose foot end eye commonly asked in many ster-viewed if One major thing you need 20 is separe crose foot end eye commonly asked in many ster-viewed if One major thing you need 20 is separed to the control of	https://presides.generation.com/procedures/location/co	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Litted recently used 20 is since count for the commonly asked in many interviewal Core major bing you need 20 is since count for the county of the county	https://www.enkinoreeks.org/arcidems/our-ale/article/a	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Least recertly used ### See a come took pick and eye commonly asked in many interviewal? One major things you need ### See a come took pick and eye commonly asked in many interviewal? One major things you need ### See a common see a com	this unreasise are shipments or approximation usualist III and unreasised to the common of the commo	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Litted recordly used Oil is seper crose foot and very commonly asked in many sterviewed. One major thing you need by horse is done and with blookloon approach directly, that's arrong way to learn DP. First find the souldon user in this blookloon approach directly, that's arrong way to learn DP. First find the souldon user in the souldon and space reduction in the basical color and the basical to the basical space reduction in the space reduction in the space reduction in the space reduction and space reduction in the space reduction and space reduction in the spac	thiss furnished an early dispersion or provident for carbot 17 carbon 17 car	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
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Technique Basic 10 - Linear DP 20 Grid DP	Litted recordly used Oil is seper crose foot and very commonly asked in many sterviewed. One major thing you need by horse is done and with blookloon approach directly, that's arrong way to learn DP. First find the souldon user in this blookloon approach directly, that's arrong way to learn DP. First find the souldon user in the souldon and space reduction in the basical color and the basical to the basical space reduction in the space reduction in the space reduction in the space reduction and space reduction in the space reduction and space reduction in the spac	https://presides.generation.com/security/securit	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Least recordly used Oil's seper count look and seperated for edity, these sworp way to learn DP. First first the solution users in this bubbles approach directly, these sworp way to learn DP. First first the solution user in this bubbles approach directly, these sworp way to learn DP. First first the solution user and the memorate of the firstly labulation and space reduction in the solution. Understand the basical! Count reum of hops Count way to reach rish stair (Order diseas) Count way to reach rish stair (Order matters) Count way to reach rish stair (Order matters) Count path = grid Unique paths at II Count path = grid Count paths - grid Unique paths at II Count paths user in grid Minimum path sum in grid Minimum path sum in grid Namber of paths with k coins Solution understand the grid way to the sum of the grid way to the grid	https://www.enkingeries.org/problems/our-disp-12/	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Litted recently used 20 a specimen force and eye commonly asked in many interviewal! One major thing you need to have a commonly asked in many interviewal! One major thing you need to have so do not seen and the process of the control of the con	https://www.enkidon.en	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
Tachnique Basic 10 - Linear DP 20 Grid DP	Lated recertify used 20 a separation back and eye commonly asked in many interviewal Core major thing you are able to a control of the contr	https://disease.com/disease.co	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP	Litted recently used 20 a specimen force and eye commonly asked in many interviewal! One major thing you need to have a commonly asked in many interviewal! One major thing you need to have so do not seen and the process of the control of the con	these furnishes a celestrogeness and protections for activate of a contract of a contr	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
Tachnique Basic 10 - Linear DP 20 Grid DP	Litted recently used 20 is separative to the common passed in many interviewed if One major thing you need to be server about an even processor, been memorated and then finally labolation and space reduction in the souldown area (recension, then memorated and then finally labolation and space reduction in absolution). Understand the basical! Understand the basical! Count rawy to reach nith stair(Order docern't matter) Count way to reach nith stair(Order docern't matter) House robber II Count path a spid Understand the spid and sp	this direction entitled process or approximation to earlier 12 miles and the contract of the c	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
Tachnique Basic 10 - Linear DP 20 Grid DP DP on subsequence	Litted recently used 20 a specimen force and eye commonly asked in many interviewed if One major thing you need to have seen commonly asked in many interviewed if One major thing you need to have seen and expected in the soulce or seen and the process of the seen and the soulce or seen and the process of the seen and the soulce or seen and the process of the seen and the soulce or seen and the seen and t	https://www.enkidoneeds.org/active/demands.org/acti	Best Tutorial link - click to view	Article link-click to view	
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Technique Basic 10 - Linear DP 20 Grid DP DP on subsequence	Latest recently used 20 a separation based and expression and separation facility that a wrong way to learn DP Final for the southern surpression and the major being you need to show the south of the separation of the southern surpression and the finally labelation and space reduction. Understand the basical! Court num of hops Court way to reach nith stair(Order matters) Court subset of the second of the	https://preside.google.	Best Tutorial link - click to view	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP DP on subsequence DP on Increasing subsequence	Litted recently used 20 is speciation for both and expected of the process of th	https://presides.genesides	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
Technique Basic 10 - Linear DP 2D Grid DP DP on subsequence	Litted recordly used Oil's spec count look and one you commonly asked in many sterviewed if One major thing you need by showns about set and this bladders approach directly, that's arrong way to learn DP. First find the souldon usery receivant, then memorated and then finally labulation and special reduction in the souldon usery receivant, then memorated and then finally labulation and special reduction in the souldon users are reduction in the souldon users are reduction in the souldon and special reduction in the beautiful country of the property of the souldon's and special reduction in the s	titles (transfer agents fragresia organizations) to activat 17 Landing and the state of the sta	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
Technique Basic 1D - Linear DP 2D Grid DP DP on subsequence DP on increasing subsequence DP on strings(Using Longest common	Later recently used 28 a speciation to proceed we procession and special forming in the part of the p	titles (transfer agents fragresia organizations) to activat 17 Landing and the state of the sta	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view	
Technique Basic 10 - Linear DP 20 Grid DP 20 Grid DP DP on subsequence DP on Increasing subsequence	Litted recordly used Oil's spec count look and one you commonly asked in many sterviewed if One major thing you need by showns about set and this bladders approach directly, that's arrong way to learn DP. First find the souldon usery receivant, then memorated and then finally labulation and special reduction in the souldon usery receivant, then memorated and then finally labulation and special reduction in the souldon users are reduction in the souldon users are reduction in the souldon and special reduction in the beautiful country of the property of the souldon's and special reduction in the s	thiss furnishes a celestrogeness and proteinments to a capte of the common of the comm	Best Tutorial link - click to view Best Tutorial link - click to	Article link-click to view Article link-click to view	

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	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		
	Longest palindromic subsequence	https://eetcode.com/problems/longest-palindromic-subsequence https://eetcode.com/problems/minimum-insertion-steps-to-make-a-string-	Best Tutorial link - click to view	Article link-click to view	
	Form a palindrome with minimum insertions	paindrome	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/minimum-number-of-deletions- and-insertions0209/1?page=4&category=Dynamic%			
	Min num of deletions and insertions to make string s1 equal to s2	20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/shortest-common-	Best Tutorial link - click to view	Article link-click to view	
	Shortest common supersequence	supersequence0322/17page=2&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/longest-common-substring1452/1?			
	Longest common substring/subarray	page=1&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/longest-palindrome-in-a-	Best Tutorial link - click to view	Article link-click to view	
		string3411/1?page=1&category=Dynamic%	Best Tutorial link - click to view	Author Policy Control Control	
	Longest palindromic substring	20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/longest-repeating- subsequence2004/1?page=2&category=Dynamic%	Best Tutonal link - click to view	Article link-click to view	
	Longest repeating subsequence	subsequence2004/1?page=2&category=Dynamic% 20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
DP on string	congest repeating subsequence		DESCRIPTION OF THE PROPERTY OF	COLUMN DE FACE	
	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 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/1?			
	Distinct occurence	page=3&category=Dynamic% 20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view		
	Wildcard pattern matching	https://www.geeksforgeeks.org/problems/wildcard-pattern-matching/1? page=4&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/longest-valid-parentheses5657/12	Best Tutorial link - click to view		
	Longest valid parentheses	page=3&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/word-break1352/12			
	Word break	page=3&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/word-break-part-23249/17	Best Tutorial link - click to view	Article link-click to view	
	Word break II	page=5&category=Dvnamic%20Programming&sortBv=submissions		Article link-click to view	
	Word wrap	https://www.geeksforgeeks.org/problems/word-wrap1648/12 page=48.category=Dynamic?620Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Interleaved strings	https://www.geeksforgeeks.org/problems/interleaved-strings/1? 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					
DP on stocks(Was asked in one of my 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		
	Best time to buy and sell stock III(Once you solve the above prob, all probs in this pattern are extended time to buy and sell stock III	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 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- cooldown/	Best Tutorial link - click to view	Article link-click to view	
	Best time to buy and self stock with transaction fee	https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-	Best Tutorial link - click to view		
DP on partition and MCM		transaction-fee/	source returned and - CICK to view	russes of IN-CHUR, ID-VICW	
	Matrix chain multiplication(Quite tricky pattern, every prob is diff and teaches something so do solve all)	https://www.geeksforgeeks.org/problems/matrix-chain-multiplication0303/12 page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	solve all) Minimum cost to cut stick	page=2&category=Dynamic%20Programming&sortBy=submissions https://leetcode.com/problems/minimum-cost-to-cut-a-stick/	Best Tutorial link - click to view Best Tutorial link - click to view		
	Burst balloons	https://www.geeksforgeeks.org/problems/burst-balloons/1?	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/boolean-parenthesization5610/12			
	Boolean Parenthesization	page=3&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/patindromic-patitioning4845/12	Best Tutorial link - click to view		
	Palindrom partitioning	page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view		
	Partition array for max sum	https://leetcode.com/problems/partition-array-for-maximum-sum/ https://www.geeksforgeeks.org/problems/max-rectangle/12	Best Tutorial link - click to view		
	Max rectangles area with all 1s Count square submatrices	https://www.geeksforgeeks.org/problems/max-rectangle/12 page=3&category=Dynamic%20Programming&sortBy=submissions https://leetcode.com/problems/count-square-submatrices-with-all-ones/	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-ail-ones/	Best Tutorial link - click to view	Article link-click to view	
Basic patterns					
	What is heap? Understand the data structure		Best Tutorial link - click to view		
	Min heap implementation Max heap implementation	Min Heap Implementation - Coding Ninjas https://www.gatevidyalay.com/tag/max-heap-questions/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Convert min heap to max heap	https://www.geeksforgeeks.org/problems/convert-min-hesp-to-max-hesp- 1666385109/1			
Top k pattern	Convert min heap to max heap	1686385109/1	Best Tutorial link - click to view	Article link-click to view	
144 114 114 114 114 114 114 114 114 114		https://www.geeksforgeeks.org/problems/k-largest-elements4206/1?			
	kth largest in array kth smallest in array	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/	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 https://leetcode.com/problems/sort-characters-by-frequency/	Best Tutorial link - click to view Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/kth-largest-element-in-a-			
	kth largest num in streams Reorganize string	stream2220/17page=1&category=Heap&sortBy=submissions https://leetcode.com/problems/reorganize-string/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	Reorganize string k distance apart	https://leetcode.com/problems/rearrange-string-k-distance-apart	Best Tutorial link - click to view		
	kth smallest sum of matrix	https://leetcode.com/problems/find-the-kth-smallest-sum-of-a-matrix-with- sorted-rows/	Best Tutorial link - click to view	Article link-click to view	
	ugly num II	https://leetcode.com/problems/ugly-number-ii/	Best Tutorial link - click to view		
Merge k sorted pattern					
	Merge k sorted array k pairs with smallest sum	https://gractice.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		
	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		hitte://www.neekeforneeke.org/nerhlame/lind.martian.in.a.etraam.			
	Find median from data stream	https://www.geeksforgeeks.org/problems/find-median-in-a-stream- 1587115620/1?page=1&category=Heap&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Sliding window median Maximum capital/IPO	https://leetcode.com/problems/sliding-window-median/ https://leetcode.com/problems/ipo/	Best Tutorial link - click to view Best Tutorial link - click to view		
Minimum number pattern	Maximum capitatir-O		Dest rutorial link - click to view	Aude lin-cick ib view	
	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	Article link-click to view	
	Minimum cost to hire k workers	https://leetcode.com/problems/minimum-cost-to-hire-k-workers/	Best Tutorial link - click to view		
	Minimum num of CPU Minimum num of refueling stops	https://leetcode.com/problems/task-scheduler/ 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	
Trie - Data structure		The state of the s	THE PARTY OF THE P	The state of the s	
Basic and must solve					
	Implement Trie from scratch	https://www.codingninjas.com/studio/problems/implement-trie_631356 https://www.geeksforgeeks.org/problems/word-break-trie141631/12	Best Tutorial link - click to view	Article link-click to view	
	Word break (Do solve it using trie, though you had solved this already)	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	https://leetcode.com/problems/longest-common-prefix/	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/maximum-xor-of-two-numbers-in- an-arraw/12			
	Maximum XOR of two numbers in array	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/unique-rows-in-boolean-matrix/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	land the state of	itm_source=geekstorgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky_on_Article	Best Tutorial link - click to view		
	Unique rows in boolean matrix				
	Prefix match with other strings	https://www.geeksforgeeks.org/problems/prefix-match-with-other-strings/1	Best Tutorial link - click to view	Afficie Ink-clok to View	
String		hlips://www.geeksforgeeks.org/problems/prefix-match-with-other-strings/1		Article Init-citek to view	
String Must solve and Algos specific to string	Prefix match with other strings	https://www.geeksforgeeks.org/problems/prefix-match-with-other-strings/1 https://www.geeksforgeeks.org/problems/implement-atoi/1	Best Tutorial link - click to view		
	Prefix match with other strings Most of the Imp problems in strings involves diff techniques, algos which are already covered. In this section, we will focus on string specific imp probs and algos	https://www.geeksforgeeks.org/problems/implement-stol/1 https://keetcode.com/problems/count-and-say/		Article link-click to view	
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