Curious freaks CODING SHEET by Nandhini
Checkout this video to understand efficient way to use this sheet - https://youtu.be/ALpPSZFok/Q
Youtube Channel - https://www.youtube.com/@curiousfreaks_
Lets use PCFCodingSheet tag to share with Triends on social media - https://www.instagram.com/its_me_nandyy
Connect with me on Linkedin - https://www.linkedin.com/in/nandhin-raja_Bb71b4143/
Only sheet you need to get placed in super high paying companies including google, amazon, salesforce, microsoft, adobe, etc

Solving time - Hard problems - At max 45	riomins imins - 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 p	robs in that pattern your	self.	
TOPIC	Problem	Problem link	Solution Tutorial	Solution Article	Solved	Notes
Basics Beginners basic math probs						
	Find even or odd	https://practice.geeksforgeeks.org/problems/dod-or-even3618/1 https://www.geeksforgeeks.org/problems/find-last-digit-of-ab-for-large- numbers1936/1	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)	https://practice.geeksforgeeks.org/problems/count-digits5718/1	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) Find power of a number	https://www.geeksforgeeks.org/problems/reverse-digit0316/1 https://www.geeksforgeeks.org/problems/power-of-numbers-1587115620/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view		
	GCD Print all divisors of a number	https://practice.geeksforgeeks.org/problems/gcd-of-two-numbers3459/1 https://www.codingninjas.com/studio/problems/print-all-divisors-of-a- number_1164188	Best Tutorial link - click to view Best Tutorial link - click to view			
	Prime number(Try solving by yourself) Armstrong number(Solving power of number, will make this easy for you)	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 or number, will make this easy tor 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/paindrome0748/1	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) Perfect number	https://www.geeksforgeeks.org/problems/square-root/1 https://practice.geeksforgeeks.org/problems/perfect-numbers3207/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view		
A Data at	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? Find the maximum and minimum element in array(After solving the search, you can solve all probs in this basics by yourself)	https://www.geeksforgeeks.org/problems/find-minimum-and-maximum- element-in-an-arrayd428/1	Best Tutorial link - click to view 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			
	Seator of reminent in an ay(ornerstand now to daverse through the array and now to access the 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	hillne //www.maakeformaake.org/org/hame/enst.an.array.nf.De.1e.anst.	Best Tutorial link - click to view			
	Sort an array of 0s , 1s and 2s (You dont need to know any sorting algo, just using basics, once	2s4231/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	Best Tutorial link - click to view	Audiado Sinde atinde do criscos		
	solved, definitely learn the optimal algo)	cky_on_Article https://www.geeksforgeeks.org/problems/check-if-two-arrays-are-equal-or- not3847172	Secure Futurial and - Click to view	AND THE PROPERTY OF THE PROPER		
	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 itm_source-geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	Rotate the array by 1 Rotate the array by k	cky on Article https://www.codingninjas.com/studio/problems/rotate-array_1230543	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 Count frequency of elements in array(Solve efficiently, try applying what you learnt about map)	https://practice.geeksforgeeks.org/problems/frequency-of-array-elements- 1587115620/1	Best Tutorial link - click to view Best Tutorial link - click to view			
Two pointer(This is very imp pattern, not just for these probs but very commonly you can use this technique)		TOCH TOCKOT!	Descriptional link - Click to view	CANADA TRIANCIACK ID VIEW		
commonly you can use this technique)	Just like search, sort, this is also imp technique to learn	https://www.geeksforgeeks.org/problems/key-pair5816/12				
	Find pair with given sum	itm_source=geeks&forgeeks&itm_medium=Article&itm_campaign=bottom_sti-cky_on_Article https://www.geeksforgeeks.org/problems/triplet-sum-in-array-	Best Tutorial link - click to view	Article link-click to view		
	3 Sum	https://www.geeksforgeeks.org/problems/triplet-sum-in-array- 1587115821112 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- cky_on_Article	Best Tutorial link - click to view	Audiado Sinde atinde do criscos		
	3 SUM 4 Sum Find triplets with zero sum	https://www.geeksforgeeks.org/problems/4sum/ https://www.geeksforgeeks.org/problems/find-triplets-with-zero-sum/1	Best Tutorial link - click to view	Article link-click to view		
	Find count of triplets	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 https://www.geeksforgeeks.org/problems/intersection-of-two-arrays2404/17	Best Tutorial link - click to view	Article link-click to view		
	Intersection of two arrays	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- 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-arravi12 sitne-source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti				
	not always you will have pointers at start and end)	cky_on_Article https://www.geeksforgeeks.org/problems/k-th-element-of-two-sorted-	Best Tutorial link - click to view	Article link-click to view		
	kth element of 2 sorted arrays	array1317/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti- ckv_on_Article	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum- k0809/172 itm source-geeksforgeeksåitm medium=articleåitm campaign=bottom sti				
	Length of longest subarray with sum k	https://www.qeeksforgeeks.org/problems/trapping-rain-water- 1587115621/12	Best Tutorial link - click to view	Article link-click to view		
	Trapping rain water	1887118621/12 itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti ckv_on_Article	Best Tutorial link - click to view	Article link-click to view		
Must Solve	Majority element	https://leetcode.com/problems/majority-element/	Best Tutorial link - click to view			
	Kadane's algo(super imp)	https://practice.geeksforgeeks.org/problems/kadanes-algorithm- 1587115620/1	Best Tutorial 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			
	Maximum product subarray Next permutation	https://leetcode.com/problems/next-permutation/ https://leetcode.com/problems/next-permutation/ https://www.geeksforgeeks.org/problems/sieve-of-erstostheges5242/1	Best Tutorial link - click to view 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://youtu.be/FPu9Uld7W/-E?si=s_d8cjdb8UllVq18 - After learning this, make sure to learn time.		Best Tutonal Ink - Click to view	Affice link-click to view		
Matrix - Data structure Traversal & Basic & Must solve	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					
a basic a must solve	What is a 2D Array? How to access element? Search in a matrix	https://keetcode.com/problems/search-a-2d-matrix/	Best Tutorial link - click to view Best Tutorial link - click to view			
	Rotate by 90 degree	https://www.geeksforgeeks.org/problems/rotate-by-90-degree-1587115621/1 https://www.geeksforgeeks.org/problems/row-with-minimum-number-of-	Best Tutorial link - click to view	Article link-click to view		
	Manipum num of the cour	1s5430/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti_	Don't Tutarist Fath and Co.	Author Survey of the		
	Maximum num of 1's row Left rotate matrix k times	cky on Article https://practice.geeksforgeeks.org/problems/left-rotate-matrix-k-times2351/1 https://practice.geeksforgeeks.org/problems/left-rotate-matrix-k-times2351/1	Best Tutorial link - click to view Best Tutorial link - click to view			
	Print matrix in diagonal pattern	https://www.geeksforgeeks.org/problems/print-matrix-in-diagonal-pattern/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		
Recursion - Technique	Set matrix zeros Recursion is super important concept!! Lets first understand the basics of recursion in this section before moving focused.	https://leetcode.com/problems/set-matrix-zeroes/	Best Tutorial link - click to view	Article link-click to view		
	before moving forward 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-eliek to view		
	Print 1 to N using recursion	https://www.geeksforgeeks.org/problems/print-1-to-n-without-using-loops- 15871156201	Best Tutorial link - click to view			
	Factorial of N numbers	https://practice.geeksforgeeks.org/problems/factorist5739/1 https://www.geeksforgeeks.org/problems/nth-fibonacci-number1335/12 itm_source=geeksforgeeks.aitm_medium=Article&itm_campaign=bottom_sti	Best Tutorial link - click to view			
	Fibonacci series using recursion	cky on Article	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/power-of-numbers-1587115620/12		Article link-click to view		
	Power(x,n) Draw the recursion tree for all the probs for sure	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti cky_on_Article	Best Tutorial link - click to view			
	Power(x,n) Draw the recursion tree for all the probs for sure Print pattern	cky_on_Article https://www.geeksforgeeks.org/problems/print-pattern3549/17; page=1&category=Recursion&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view Best Tutorial link - click to view	Article link -click to view		
		cky_on_Article https://www.geeksforgeeks.org/problems/print-pattern/3549/17 page=18.category=Recursion&difficulty=Easy&sortBy=submissions				
	Pint pattern Recursive implementation of atol Pascal strangle	cky_on_Article https://www.geeksforgeeks.org/problems/print-pattern3549/17; page=1&category=Recursion&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link -click to view		
Binary Search - Algo	Print pattern Recursive implementation of atoi	cky, or., Article hiss_/lown, oeeksforgeeks, org/problems/print- pattern3849/17, page=18_categony=Recursion&difficutiv=Easy&sor@y=submissions hips_//roactice_peeksforgeeks_org/poblems/implemem-tadi/17; ulm_sourcespeeksforgeeks&dim_medium=ml_Article_practice_plabAulm_ca- massipe-Article_practice_table_	Best Tutorial link - click to view Best Tutorial link - click to view	Article link -click to view		
Binary Search - Algo Basic pattern	Pint pattern Recursive implementation of atoi Peace Strangle Bins attended, conditionable energy discussion 03 174 0 0 mm. Search for Departures Disclemation Datematic or Strangle solutions The Condition of Strangle solution of Strangle solutions The Condition of	cks, ou. Addition. These Twenty and Control of the	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		
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Binary Sparch - Algo Basic pattern	Prior pattern Recursive implementation of stol Pascal triangle Hass. Retended considerances are discussion for Indiatory Search for Beathers Problems or Characters of Shamle sold force Search in a sorted array(Efficiently > So leam binary search for this) Find for and cell in sorted array Find first and lead occurrence of element in sorted array	cks, oo, Arkide New, John Schotter, State Commission (and lem 364811) Japan Schotter, John Sch	Rest Tutorial link - click to view Best Tutorial link - click to view Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view		
Binary Sparch - Algo Basic pattern	Pint patien Recursive implementation of atol Pascul triangle Interstitution Recursive Section 19	cks, oo, Arkide News, Jewa Carella Chromesta, orajonoleemakinini, saatlem 3648112 Japanis Maarikan van Porsansion delifikolin – Einst Anson Variantinininininininininininininininininin	Best Tutorial link - click to view	Article link-click to view		
Binary Sparch - Algo Basic pattern	Prior pattern Recursive implementation of stol Pascal triangle Hass. Retended considerances are discussion for Indiatory Search for Beathers Problems or Characters of Shamle sold force Search in a sorted array(Efficiently > So leam binary search for this) Find for and cell in sorted array Find first and lead occurrence of element in sorted array	cks_co_Addica toks_co_Addica	Rest Tutorial link - click to view Best Tutorial link - click to view Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view		
Binary Sparch - Algo Basic pattern	Prior pattern Recursive implementation of stol Pascal triangle Blass all centrols consistence of stoles and the stoles of the	cks, oo, Arkide riks, Jiwa (Arkide) Jiwa (Barika) Jiwa	Best Tutorial link - click to view	Article Inikclick to view Article Inikclick to view Article Inikclick to view Article Inik-click to view		
Binary Soarch - Algo Basic pattern Sorted rotated array	Prior pattern Recursive implementation of stol Pascal brangle Blass identified a consideration of stol Pascal brangle Blass identified a consideration of stol Search in a sorted analytic identified brangle Find floor and cell in sorted array Find first and last coccentre of element in sorted array Find missing rum from 1 to N Find square root	cks, oo, Arkide Teks, Jiwa Careki Chromess, organolemskarid, satlem 354917 James Marika Jovan Genatis on Middling Heilang Marika Haribandson James Marika Andreas on Marika Haribandson James Marika Andreas on Marika Haribandson James Marika Hariban	Best Tutorial link - click to view Best Tutorial link - click to view	Article Inixclick to yiew Article Inixclick to view Article Inixclick 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-1s170847/17page=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.deesstorgeeks.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	Addista 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.geesstorgeeks.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=18-category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view		
Sorting, Merging & Related			Best Tutorial link - Click to view	Affice link - click to view	
	Sort 0s, 1s, 2s in LL	https://www.geeksforgeeks.org/problems/given-a-linked-list-of-0s-1s-and-2s- 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		
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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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	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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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			
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	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		
Implementation probs	Torons a quees		DESCRICTION STATE OF THE STATE	COLUMN TO SERVICE SERV	
	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		
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Sliding Window - Technique	The state of the s	https://leatrode.com/problems/find-all-anarrame.in-a-	Best Tutorial link - click to view	Aude link-click to view	
(Dont skip this topic, I personally have been asked this topic in many interviews	GeekForGeeks has very limited probs in this topics, so use leetcode for this even if you practice on gfg generally	naps://eccode.com/problems/ind-ai-aragrams-in-a- string/solutions/92007/sliding-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		
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	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=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-	Best Tutorial link - click to view		
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	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			
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	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	Article link-click to view	
	Minimum window subsequence(Understand the diff between subarray and subsequence before starting this prob)	https://leetcode.com/problems/minimum-window-subsequence/	Best Tutorial link - click to view		
Trees - Data structure	Subarray with k diff integers			Article link-click to view	
		https://leetcode.com/problems/subarrays-with-k-different-integers/	Best Tutorial link - click to view	Article link-click to view 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&category=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/17 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/1? 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		
Multi Source	Flood fill	bibs://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bibs://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bibs://www.qeeksforgeeks.org/problems/flood-fill-org-fill-sortfill-ysubmissions bibs://www.qeeksforgeeks.org/problems/flood-fill-org	Best Tutorial link - click to view	Article link-click to view	
Multi Source	Flood fill Replace O's with XsjBelow can be solved easily in this pattern once you learnt flood fill) Unit area of largest region of 1s	bibs://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bibs://www.qeeksforgeeks.org/problems/flood-fill-algorithm1858/12 page=15.categonv=Graph-Sortfill-ysubmissions bibs://www.qeeksforgeeks.org/problems/flood-fill-org-fill-sortfill-ysubmissions bibs://www.qeeksforgeeks.org/problems/flood-fill-org	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-xs0052/12 page=16-astepony-Graph-Bootfily-submissions	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	

	Topological sort algo(Learning this algo, will make you solve all the probs in this pattern)	https://www.geeksforgeeks.org/problems/topological-sort/12 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=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Activity selection prob(Super imp)	https://www.geeksforgeeks.org/problems/activity-selection-1587115620/12 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	
Technique	Least recently used	billas (Iracidos periodos propriodos más candos III) Las consecuentes de apresentados por propriodos más candos III Las consecuentes de apresentados por propriodos por p	Best Tutorial link - click to view	Article link-dick to view	
Technique Basic	Least recently used. Least recently used. Least recently used on any commonly asked in many intervieworl? Our major things on seed to review is done that with this bladders approach directly, these every any or learn DR Farfards the solution using recursion, then memoization and then finally labulation and space reduction in stabilation. Understand the basical!	https://incide.co.gets/dorgets.org/problems/loc-action/10/ https://incide.co.gets/dorgets/loc-action/10/ 14/04/Cation/10/ https://incide.co.gets/dorgets/loc-action/10/ https://incide.co.gets/dorgets/loc-action/10/ 14/04/Cat	Best Tutorial link - click to view Best Tutorial link - click to view Rest Tutorial link - click to view	Acticle link click to view Acticle link click to view	
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	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://leetcode.com/problems/longest-palindromic-subsequence https://leetcode.com/problems/minimum-insertion-steps-to-make-a-string-	Best Tutorial link - click to view	Article link-click to view	
	Form a palindrome with minimum insertions	paindrome	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/minimum-number-of-deletions- 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	
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DP on string	Longest repeating subsequence		Dest foldright link - Click to view	ATTAC TITLE OF A TO VEW	
	Edit distance (All the probs in this pattern are super imp, each prob is different so do solve all)	https://www.geeksforgeeks.org/problems/edit-distance3702/12 page=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Artista Salv aliab to view	
	Euit distance (virine proof in this patient are super imp, each proof is directin so do soive an)	https://www.geeksforgeeks.org/problems/distinct-occurrences/1?	DESCRIPTION OF THE PROPERTY OF	ATTAC THE CITY TO VEW	
	Distinct occurence	page=3&category=Dynamic% 20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view		
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	Word break	page=3&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Word break II	https://www.geeksforgeeks.org/problems/word-break-part-23249/12 page=5&category=Dynamic%20Programming&sortBy=submissions		Article link-click to view	
	Word wrap	https://www.geeksforgeeks.org/problems/word-wrap1646/12	Best Tutorial link - click to view		
		page=4&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/interleaved-strings/12			
20	Interleaved strings	page=3&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
DP on stocks(Was asked in one of my interview too, so dont miss any ques from this pattern)					
from this pattern)	Best time to buy and sell stock	https://leetcode.com/problems/best-time-to-buy-and-sell-stock/	Best Tutorial link - click to view	Article link-click to view	
	Best time to buy and sell stock II(Once you solve the above prob, all probs in this pattern are extend		Best Tutorial link - click to view		
	Best time to buy and sell stock III	https://leetcode.com/problems/best-time-to-buy-and-sell-stock-iii/	Best Tutorial link - click to view	Article link-click to view	
	Best time to buy and sell stock IV	https://eetcode.com/problems/best-time-to-buy-and-sell-stock-iv/ https://eetcode.com/problems/best-time-to-buy-and-sell-stock-with-	Best Tutorial link - click to view		
	Best time to buy and sell stock with cooldown	cooldown!	Best Tutorial link - click to view	Article link-click to view	
	Best time to buy and sell stock with transaction fee	https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with- transaction-fee/	Best Tutorial link - click to view	Article link-click to view	
DP on partition and MCM	Maria de la companya del companya de la companya de la companya del companya de la companya de l				
	Matrix chain multiplication(Quite tricky pattern, every prob is diff and teaches something so do solve all)	https://www.geeksforgeeks.org/problems/matrix-chain-multiplication/0303/12 page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view		
	Minimum cost to cut stick	https://eetcode.com/problems/minimum-cost-to-cut-a-stick/	Best Tutorial link - click to view	Article link-click to view	
	Burst balloons	https://www.geeksforgeeks.org/problems/burst-balloons/1? page=8&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Boolean Parenthesization	https://www.geeksforgeeks.org/problems/boolean-parenthesization5610/12 page=3&category=Dvnamic%20Programming&crtBv=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/palindromic-patitioning4845/17			
	Palindrom partitioning Partition array for max sum	page=2&category=Dynamic%20Programming&sortBy=submissions https://leetcode.com/problems/partition-array-for-maximum-sum/	Best Tutorial link - click to view Best Tutorial link - click to view		
	·	https://www.geeksforgeeks.org/problems/max-rectangle/12 page=38category=Dynamic/s20Programming&sortBy=submissions			
	Max rectangles area with all 1s Count square submatrices	page=3&category=Dynamic%20Programming&sortBy=submissions https://leetcode.com/problems/count-square-submatrices-with-all-ones/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
Heaps - Data structure					
Basic patterns					
	What is heap? Understand the data structure Min heap implementation	Min Heap Implementation - Coding Ninjas	Best Tutorial link - click to view Best Tutorial link - click to view		
	Max heap implementation	https://www.gatevidvalay.com/tag/max-heap-questions/	Best Tutorial link - click to view	Article link-click to view	
	Convert min heap to max heap	https://www.geeksforgeeks.org/problems/convert-min-heap-to-max-heap- 1686385109/1	Best Tutorial link - click to view	Article link-click to view	
Top k pattern	Convert min neap to max neap	1000001031	DESCRIBITION OF CHER TO VIEW	PRODUCTION TO VICTOR	
	kth largest in array	https://www.geeksforgeeks.org/problems/k-largest-elements4208/17	Best Tutorial link - click to view	Article link-click to view	
	kth smallest in array	page transport inspector by southerness	Best Tutorial link - click to view	Article link-click to view	
	Top k frequent elements	https://leetcode.com/problems/top-k-frequent-elements/	Best Tutorial link - click to view	Article link-click to view	
	Top k frequent words Frequency sort	https://leetcode.com/problems/top-k-frequent-words 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		
	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://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		
	k smallest nums in M sorted list	https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/	Best Tutorial link - click to view		
Two heaps pattern					
	Find median from data stream	https://www.geeksforgeeks.org/problems/find-median-in-a-stream- 1587115620/1?page=1&category=Heap&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Sliding window median	https://leetcode.com/problems/sliding-window-median/	Best Tutorial link - click to view	Article link-click to view	
Minimum number pattern	Maximum capital/IPO	https://leetcode.com/problems/ipo/	Best Tutorial link - click to view	Article link-click to view	
Millimoni number pattern		https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes- 1587115620/1			
	Minimum cost to connect ropes Meeting room II	1587115620/1 https://eetcode.com/problems/meeting-rooms-ii	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	Minimum cost to hire k workers	https://leetcode.com/problems/minimum-cost-to-hire-k-workers/	Best Tutorial link - click to view		
	Minimum num of CPU	https://leetcode.com/problems/task-scheduler/	Best Tutorial link - click to view	Article link-click to view	
Trie - Data structure	Minimum num of refueling stops	https://leetcode.com/problems/minimum-number-of-refueling-stops/	Best Tutorial link - click to view	Article link-click to view	
Basic and must solve					
	Implement Trie from scratch	https://www.codingninjas.com/studio/problems/implement-trie_631358	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/word-break-trie141631/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	Word break (Do solve it using trie, though you had solved this already)	cky on Article	Best Tutorial link - click to view		
	Longest string with all prefixes	https://leetcode.com/problems/longest-common-prefix/ https://www.geeksforgeeks.org/problems/maximum-xor-of-two-numbers-in-	Best Tutorial link - click to view	PUBLIC IFFICION TO VIEW	
		an-array/12 itm_source=neeksforneeks&itm_medium=Article&itm_campaign=hottom_sti			
	Maximum XOR of two numbers in array	cky on Article	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/unique-rows-in-boolean-matrix/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	L		
	Unique rows in boolean matrix Prefix match with other strings	cky on Article	Best Tutorial link - click to view Best Tutorial link - click to view		
Ctains	Prenx match with other strings involves diff techniques, algos which are already covered. In this section, we will focus on string specific imp probs and algos	and the state of t	THE PART OF THE PA		
String Must solve and Algos specific to string	covered. In this section, we will focus on string specific imp probs and algos				
a	Implement Atoi	https://www.geeksforgeeks.org/problems/implement-atoi/1	Best Tutorial link - click to view		
	Count and say	https://leetcode.com/problems/count-and-say/	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/count-the-reversals0401/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	L		
	Minimum bracket reversals	cky_on_Article https://practice.geeksforgeeks.org/problems/search-pattern-rabin-karp-	Best Tutorial link - click to view	Article link-click to view	
	Rabin karp algo(Pattern searching, super imp, this was infact asked in one of my interview)	algorithm141631/1	Best Tutorial link - click to view	Article link-click to view	
	Boyer moor algo (Pattern searching)	https://www.codingninjas.com/studio/problems/boyer-moore-algorithm-for- pattern-searching 1115634	Best Tutorial link - click to view		
	KMP algo (Longest prefix suffix, super imp)	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix2527/1	Best Tutorial link - click to view	Article link-click to view	
	Longest happy prefix Remove all adiacent duolicates	https://www.geeksforgeeks.org/longest-prefix-also-suffix/ https://leetcode.com/problems/remove-all-adiscent-duplicates-in-string/	Best Tutorial link - click to view Best Tutorial link - click to view		
	Hashing in strings	https://www.geeksforgeeks.org/practice-problems-on-hashing/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	Print all anagrams	https://leetcode.com/problems/group-anagrams/	Best Tutorial link - click to view	Article link-click to view	
	Z - Function	https://practice.geeksforgeeks.org/problems/search-pattern-z-algorithm- 141631/1	Best Tutorial link - click to view	Article link-click to view	
	Shortest palindrome	Shortest Palindrome - LeetCode	Best Tutorial link - click to view	Article link-click to view	
	Circle of strings	https://www.geeksforgeeks.org/problems/circle-of-strings4530/1 https://www.geeksforgeeks.org/problems/roman-number-to-integer3201/12	Best Tutorial link - click to view	Article link-click to view	
	Demon supposals to decimals	https://www.geeksforgeeks.org/problems/roman-number-to-integer3201/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	Best Tutorial link - click to view	Autiato tinh edials to sinss	
	Roman numerals to decimals	cky_on_Article	page records IFIX - Click to view	COLOR WASHING WASH	
There are couple of more topics, bit man	nipulation, segment trees and AVL trees which has limited number of probs, so do check that or	out if you have good amount of time still left			
Checkout this for bit tricks - https://leetc	code.com/discuss/general-discussion/1073221/All-about-Bitwise-Operations-Beginner-Interme	diate			
Leetcode Article for behavioural					
rounds	https://leetcode.com/discuss/interview-experience/1532708/tips-for-answering-few-	tricky-behavioural-interview-questions			
rounds Leetcode Article for major patterns	https://leetcode.com/discuss/general-discussion/665604/Important-and-Useful-links				
rounds Leetcode Article for major patterns Resume standard template	https://leetcode.com/discuss/general-discussion/665604/Important-and-Useful-link/ https://www.overleaf.com/Articles/ravi-kukretis-resume/cxprrkxbccgb				
rounds Leetcode Article for major patterns Resume standard template	https://leetcode.com/discuss/general-discussion/665604/Important-and-Useful-links				