## Curious freaks CODING SHEET by Nandhini

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Only sheet you need to get placed in super high paying companies including google, amazon, salesforce, microsoft, adobe, etc Solving time - Easy Problems - 5 to 10mins

Solving time - Easy Problems - 5 to 10mins Solving time - Medium Problems - 15 to 20mins Solving time - Hard problems - At max 45mins - 50mins

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

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	Count inversions	https://practice.geeksforgeeks.org/problems/inversion-of-array-158711562 0/1			
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	Seive of eranthoses(Popular algo for prime numbers)	https://www.geeksforgeeks.org/problems/sieve-of-eratosthenes5242/1	Best Tutorial link - click to view	Article link-click to view	
Time and space complexity	https://youtu.be/FPu9Uld7W-E?si=s_d6cjdb6UtlVg16 - After learning this, make sure to learn	time and space complexity for all the problems moving forward			
	Once you learn this, in many advanced topics like graphs, DP, backtracking, this is super imp.				
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		
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		https://practice.geeksforgeeks.org/problems/left-rotate-matrix-k-times2351/			
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	Print matrix in diagonal pattern	sticky on Article	Best Tutorial link - click to view		
	Set matrix zeros	https://leetcode.com/problems/set-matrix-zeroes/	Best Tutorial link - click to view	Article link-click to view	
	Recursion is super important concept!! Lets first understand the basics of recursion in this				
Recursion - Technique					
	Understand what recursion is and how it works(Draw the recursive tree for every recursive prob				
Basics	you solve)		Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/print-1-to-n-without-using-loops-1			
	Print 1 to N using recursion	<u>587115620/1</u>	Best Tutorial link - click to view		
	Factorial of N numbers	https://practice.geeksforgeeks.org/problems/factorial5739/1	Best Tutorial link - click to view	Article link-click to view	
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	Fibonacci series using recursion	ky on Article	Best Tutorial link - click to view	Article link-click to view	
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	Find peak in sorted matrix	https://leetcode.com/problems/find-a-peak-element-ii/	Best Tutorial link - click to view	
Application(Super imp)				Article link-click to view
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	kth smallest number in matrix multiplication table		Best Tutorial link - click to view	
	kth smallest pair distance	https://leetcode.com/problems/find-k-th-smallest-pair-distance/	Best Tutorial link - click to view	
	Ugly number II	https://leetcode.com/problems/ugly-number-ii/	Best Tutorial link - click to view	
	Median of 2 sorted arrays	Median of 2 Sorted Arrays of Different Sizes   Practice   GeeksforGeeks	Best Tutorial link - click to view	Article link-click to view
	Find smallest divisor given threshold	Find the Smallest Divisor Given a Threshold - LeetCode	Best Tutorial link - click to view	
Sorting - Algo	Make sure to completely understand the algo thoroughly, and time & space complexity			
Basics	Bubble sort(very basic sorting technique)	https://www.geeksforgeeks.org/problems/bubble-sort/1?itm_source=geeks forgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view
	Selection sort	https://www.geeksforgeeks.org/problems/selection-sort/1?itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view
	Insertion sort	https://www.geeksforgeeks.org/problems/insertion-sort/1?itm_source=gee ksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view
	Merge sort	https://www.geeksforgeeks.org/problems/merge-sort/1?itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view
	Quick sort	https://www.geeksforgeeks.org/problems/quick-sort/17itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view
LinkedList - Data structure				
LilikeuList - Data structure	Completely understand how Node in linkedList is represented and then go ahead with the			
Basic patterns	patterns Create, Insert, Delete Operations in LL		Best Tutorial link - click to view Best Tutorial 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-1664434326/	Best Tutorial link - click to view	Article link-click to view
	Reverse a LL(Learn the O space approach, learn recursive & iterative soln)	https://www.geeksforgeeks.org/problems/reverse-a-linked-list/1?page=1&c ategory=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view
	Check if LL is a Palindrome(Once reversing is learnt, this should be easy)	https://www.geeksforgeeks.org/problems/check-if-linked-list-is-pallindrome/ 1?page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view
	Middle element of LL (Learn efficient approach)	https://www.geeksforgeeks.org/problems/insert-in-middle-of-linked-list/1?page=2&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view
	Find the intersection point of Y LL(Once you know traversal, apply node logic to solve this)	https://www.geeksforgeeks.org/problems/intersection-point-in-y-shapped-linked-lists/1?page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view
	Union and Intersection of LI	https://www.geeksforgeeks.org/problems/union-of-two-linked-list/1?itm_so_ urce=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_ on_Article	Best Tutorial link - click to view	Artiolo link, plink to vicey
		https://www.geeksforgeeks.org/problems/delete-without-head-pointer/1?pa		
	Delete without head pointer	ge=1&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/count-pairs-whose-sum-is-equal-	Best Tutorial link - click to view	Article link - click to view
	Count pairs with given sum  Reverse LL in groups of given size(Once you learn reverse of LL's efficient approach, you can try	to-x/1?page=2&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/reverse-a-linked-list-in-groups-of-	Best Tutorial link - click to view	
	this)	given-size/1?page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view
Loop				
	Detect loop in LL(Once this is learnt, all the loop pattern probs below should be easy)	https://www.geeksforgeeks.org/problems/detect-loop-in-linked-list/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/1?page=1&category=Linked%20List&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view
	Find the starting point of loop	https://www.geeksforgeeks.org/problems/find-the-first-node-of-loop-in-linke d-list170845/1	Best Tutorial link - click to view	Article link - click to view
	Remove the loop	https://www.geeksforgeeks.org/problems/remove-loop-in-linked-list/1?page =1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view
Sorting, Merging & Related				
	Sort 0s 1s 2s in II	https://www.geeksforgeeks.org/problems/given-a-linked-list-of-0s-1s-and-2 s-sort-it/1?page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	001.03, 13, 23 11 EE			
		https://www.geeksforgeeks.org/problems/pairwise-swap-elements-of-a-link ed-list-by-swapping-data/1?page=2&category=Linked%20List&sortBy=sub missions	Best Tutorial link - click to view	Article link-click to view
	Pairwise swap elements	ed-list-by-swapping-data/1?page=2&category=Linked%20List&sortBy=sub missions	Best Tutorial link - click to view	Article link-click to view
		ed-list-by-swapping-data/1?page=2&category=Linked%20List&sortBy=sub missions https://www.geeksforgeeks.org/problems/merge-two-sorted-linked-lists/1?pa age=1&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/sort-a-inked-list/1?page=2&cate	Best Tutorial link - click to view  Best Tutorial link - click to view	
	Pairwise swap elements  Merge k sorted LL(Merge two sorted is easy version of this ques, if you are finding it diff to come	ed-list-by-swapping-data/1?page=2&category=Linked%20List&sortBy=sub missions https://www.geeksforgeeks.org/problems/merge-two-sorted-linked-lists/12p	Best Tutorial link - click to view  Best Tutorial link - click to view	Article link-click to view

		https://www.geeksforgeeks.org/problems/remove-duplicate-element-from-s		
		orted-linked-list/1?page=1&category=Linked%20List&difficulty=Easy&sort By=submissions		
		https://www.geeksforgeeks.org/problems/remove-duplicates-from-an-unsor		
	Remove occurence of duplicates in sorted & unsorted LL	ted-linked-list/1?page=1&category=Linked%20List&difficulty=Easy&sortBy =submissions	Best Tutorial link - click to view	Article link-click to view
		https://practice.geeksforgeeks.org/problems/segregate-even-and-odd-nod		
	Seggregate even and odd nodes in LL	es-in-a-linked-list5035/1	Best Tutorial link - click to view	Article link-click to view
Arithmetic(Reversal & traversal - Once you learnt these, you can solve probs in this pattern)				
,	Add 1 to a number represented as LL	https://practice.geeksforgeeks.org/problems/add-1-to-a-number-represent ed-as-linked-list/1	Best Tutorial link - click to view	Article link-click to view
	Add 2 numbers represented as LL	$\label{limit} \frac{https://practice.geeksforgeeks.org/problems/add-two-numbers-represented-by-linked-lists/1}{d-by-linked-lists/1}$	Best Tutorial link - click to view	Article link-click to view
	Subtraction on LL(Comes under hard but should be solvable once the above ones are solved)	https://www.geeksforgeeks.org/problems/subtraction-in-linked-list/1?page= 1&category=Linked%20List&difficulty=Hard&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
Must solve other probs(Try to solve				
these probs on own, brute force atleast you can come up for most of them after solving above)				
	Rotate I I	https://www.geeksforgeeks.org/problems/reorder-list/1?page=3&category= Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/flattening-a-linked-list170645/1		
	Flattening a LL(make sure to learn the efficient approach)	?page=4&category=Linked%20List&sortBy=submissions https://practice.geeksforgeeks.org/problems/delete-nodes-having-greater-v	Best Tutorial link - click to view	Article link-click to view
	Delete nodes having greater value on right	alue-on-right/1	Best Tutorial link - click to view	Article link-click to view
	Delete N nodes after M nodes	https://www.geeksforgeeks.org/problems/delete-n-nodes-after-m-nodes-of- a-linked-list/1?page=3&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Delete all occurence of node	a minute not 1. page=sucategory=Enricol rezuciatesor to y=Submissions	Best Tutorial link - click to view	A CHARLES AND A CONTROL OF THE CONTR
		https://www.geeksforgeeks.org/problems/clone-a-linked-list-with-next-and-r		
	Clone a LL	andom-pointer/1?page=1&category=Linked%20List&difficulty=Hard&sortB	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/length-of-longest-palindrome-in-li		
	Length of longest palindrome in LL	nked-list/1?page=2&category=Linked%20List&difficulty=Medium&sortBy=s ubmissions	Best Tutorial link - click to view	Article link-click to view
	Learn the basics of circular LL	<u>ustriissisti</u>	Best Tutorial link - click to view	
Double Linked List				
	Learn the basic representation of the nodes in LL		Best Tutorial link - click to view	Article link-click to view
	Insert, Delete, Reverse DLL	https://www.geeksforgeeks.org/problems/reverse-a-doubly-linked-list/1?pa ge=1&category=doubly-linked-list&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/find-pairs-with-given-sum-in-dou		
	Pairs with given sum in DLL	bly-linked-list/1?page=1&category=doubly-linked-list&difficulty=Easy&sort By=submissions	Best Tutorial link - click to view	Article link-click to view
Stack - Data structure				
Basic				
		https://www.geeksforgeeks.org/problems/implement-stack-using-array/1?p		
	What is stack? Leam how to represent the data structure and working of it	age=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	What is stack? Learn how to represent the data structure and working of it Implement 2 stack using array	age=1&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/implement-two-stacks-in-an-arra y/1?page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view Best Tutorial link - click to view	
		age=1&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/implement-two-stacks-in-an-arra y1/?page=1&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/parenthesis-checker2744/1?pag	Best Tutorial link - click to view	Article link-click to view
	Implement 2 stack using array Check for balanced paranthesis	age=1&artegory=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/implement-two-stacks-in-an-arra y/17page=1&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/parenthesis-checker/2744/17pag e=1&category=Stack&sortBy=submissions	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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Basic  Next greater element	Implement 2 stack using array  Check for balanced paranthesis  Get min from stack in O(1) space and time	age=1&category=Stack&sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/implement-two-stacks-in-an-arra vl12page=1&category=Stack&sorfBy=submissions bltps://www.geeksforgeeks.org/problems/parenthesis-checker2744/17pag =1&category=Stack&sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/get-minimum-element-from-stack t/12page=1&category=Stack&sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/next-larger-element-1587115620/	Best Tutorial link - click to view  Best Tutorial link - click to view  Best Tutorial link - click to view	Article link-click to view Article link-click to view Article link-click to view Article link-click to view
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Basic  Next greater element  Next smallest element(Once above pattern is covered, try to solve this on	Implement 2 stack using array Check for balanced paranthesis Get min from stack in O(1) space and time  Next greater element Next greater element II	age = 1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/implement-two-stacks-in-an-arra y/17page=1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/parenthesis-checker/2744/17pag =1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/get-minimum-element-from-stack /17page=1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/next-larger-element-1587115620/ 17page=1&category=Stack&sortBy=submissions https://leetoode.com/problems/next-greater-element-li/ https://leetoode.com/problems/next-greater-element-li/ https://www.gesksforgeeks.org/problems/next-greater-element-li/ https://www.gesksforgeeks.org/problems/nelp-classmates141631/17itm	Best Tutorial link - click to view	Article link-click to view
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Basic  Next greater element  Next smallest element(Once above pattern is covered, try to solve this on	Implement 2 stack using array Check for balanced paranthesis Get min from stack in O(1) space and time  Next greater element Next greater element II  Next smallest element on left  Next smallest element on right Stock span problem(Implementation prob - Try to figure out the pattern from above next greater	age = 1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/implement-two-stacks-in-an-arra y/17page=1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/parenthesis-checker/2744/17pag =1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/iqet-minimum-element-from-stack /17page=1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/inext-larger-element-1587115620/ 17page=1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/inext-larger-element-1587115620/ https://www.gesksforgeeks.org/problems/inext-larger-element-1587115620/ 17page=1&category=Stack&sortBy=submissions https://www.gesksforgeeks.org/problems/inext-smaller-element-1112 581 https://www.gesksforgeeks.org/problems/inext-smaller-element-1112 581 https://www.gesksforgeeks.org/problems/istock-span-problem-1587115621/ 17page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
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Basic  Next greater element  Next smallest element(Once above pattern is covered, try to solve this on	Implement 2 stack using array  Check for balanced paranthesis  Get min from stack in O(1) space and time  Next greater element  Next greater element II  Next smallest element on left  Next smallest element on right  Stock span problem(Implementation prob - Try to figure out the pattern from above next greater and smaller)  Trapping rainwater  Maximum rectangular area on histogram(Once next greater and next smallest pattern is covered, this can be solved easily)	age = 1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/molement-two-stacks-in-an-arra y/17.page=1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/parenthesis-checket2744/17pag =1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/get-minimum-element-from-stack t/17.page=1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/rext-larger-element-1587115620/ 17.page=1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/next-arger-element-1/ https://www.geeksforgeeks.org/problems/next-arger-element-1/ https://www.geeksforgeeks.org/problems/next-smaller-element-1/ https://www.geeksforgeeks.org/problems	Best Tutorial link - click to view	Article link-click to view
Next greater element  Next smallest element(Once above pattern is covered, try to solve this on own)	Implement 2 stack using array  Check for balanced paranthesis  Get min from stack in O(1) space and time  Next greater element  Next greater element II  Next smallest element on left  Next smallest element on right  Slock span problem(Implementation prob - Try to figure out the pattern from above next greater and smaller)  Trapping rainwater  Maximum rectangular area on histogram(Once next greater and next smallest pattern is covered.	age = 1.&category=Stack.&sortBy=submissions bltbs://www.geeksforgeeks.org/problems/parent-two-stacks-in-an-arra yl17page=1.&category=Stack.&sortBy=submissions bltps://www.geeksforgeeks.org/problems/parenthesis-checker2744/17pag =1.&category=Stack.&sortBy=submissions bltbs://www.geeksforgeeks.org/problems/parenthesis-checker2744/17pag =1.&category=Stack.&sortBy=submissions bltbs://www.geeksforgeeks.org/problems/next-larger-element-1587115620/ 17page=1.&category=Stack.&sortBy=submissions bltps://leetcode.com/problems/next-greater-element-1/ bltps://www.geeksforgeeks.org/problems/nelp-classmates141631/17itm_source=geeksforgeeks bltbs://www.geeksforgeeks.org/problems/next-smaller-element_1112 581 bltps://www.geeksforgeeks.org/problems/stock-span-problem=1587115621/ 17page=1.&category=Stack&sortBy=submissions bltbs://www.geeksforgeeks.org/problems/stock-span-problem=1587115621/ 17page=1.&category=Stack&sortBy=submissions bltbs://www.geeksforgeeks.org/problems/stack-span-problem=1587115621/ 17page=1.&category=Stack&sortBy=submissions sticky_on_Article bltbs://www.geeksforgeeks.org/problems/trapping-rain-water-1587115621/ 17page=1.&category=Stack&sortBy=submissions sticky_on_Article bltbs://www.geeksforgeeks.org/problems/maximum-rectangular-area-in-abltsograms.BST1156201/page=1.&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
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Next greater element  Next smallest element(Once above pattern is covered, try to solve this on own)	Implement 2 stack using array  Check for balanced paranthesis  Get min from stack in O(1) space and time  Next greater element  Next greater element II  Next smallest element on left  Next smallest element on right  Stock span problem(Implementation prob - Try to figure out the pattern from above next greater and smaller)  Trapping rainwater  Maximum rectangular area on histogram(Once next greater and next smallest pattern is covered, this can be solved easily)  Max rectangle(Same as above, just a small twist)  Infix to postfix  Evaluation of postfix expression  Prefix to postfix	age = 1.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/implement-two-stacks-in-an-arra vl12page=1.6.category=Stack.8.sorfBy=submissions bltps://www.geeksforgeeks.org/problems/parenthesis-checker2744/17pag =1.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/get-minimum-element-from-stack t/page=1.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/next-larger-element-1587.115620/ 1/page=1.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/next-larger-element-1587.115620/ 1/page=1.6.category=Stack.8.sorfBy=submissions bltps://eetcode.com/problems/next-greater-element-ii/ bltbs://www.geeksforgeeks.org/problems/hept-classmates-141631/17tim- source-geeksforgeeks.org/problems/next-smaller-element.1112 581 bltbs://www.geeksforgeeks.org/problems/stock-span-problem-1587.115621/ 1/page=1.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/stack-span-problem-1587.115621/ 1/page=2.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/marimum-rectangular-area-in-a-bistogram-1587.115620/ 1/page=2.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/marimum-rectangular-area-in-a-bistogram-1587.115620/ 1/page=2.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/marimum-rectangular-area-in-a-bistogram-1587.115620/ 1/page=2.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/mar-rectangular-area-in-a-bistogram-1587.115620/ 1/page=2.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/mar-rectangular-area-in-a-bistogram-1587.115620/ 1/page=2.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/mar-rectangular-area-in-a-bistogram-1587.115620/ 1/page=2.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/problems/mar-rectangular-area-in-a-bistogram-1587.115620/ 1/page=2.6.category=Stack.8.sorfBy=submissions bltbs://www.geeksforgeeks.org/probl	Best Tutorial link - click to view	Article link-click to view
Next greater element  Next smallest element(Once above pattern is covered, try to solve this on own)  Expressions	Implement 2 stack using array  Check for balanced paranthesis  Get min from stack in O(1) space and time  Next greater element  Next greater element II  Next smallest element on left  Next smallest element on right  Stock span problem(Implementation prob - Try to figure out the pattern from above next greater and smaller)  Trapping rainwater  Maximum rectangular area on histogram(Once next greater and next smallest pattern is covered, this can be solved easily)  Max rectangle(Same as above, just a small twist)  Infix to postfix  Evaluation of postfix expression  Prefix to postfix	age = 1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/molement-two-stacks-in-an-arra y/17.page=1&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/parenthesis-checke/2744/17pag =1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/sqet-minimum-element-from-stack 17.page=1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/sqet-minimum-element-from-stack 17.page=1.&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/net/-arger-element-li/  https://www.geeksforgeeks.org/problems/nelp-classmates=-14.163.1/17itm_sourcs=geeksforgeeks.org/problems/nelp-classmates=-14.163.1/17itm_sourcs=geeksforgeeks.org/problems/nelp-classmates=-14.163.1/17itm_sourcs=geeksforgeeks.org/problems/next-smaller-element_1112_S01 https://www.geeksforgeeks.org/problems/next-smaller-element_112_S01 https://www.geeksforgeeks.org/problems/next-smaller-element_112_S01 https://www.geeksforgeeks.org/problems/next-smaller-element_11587.11562.0/1 https://www.geeksforgeeks.org/problems/next-smaller-element_11587.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naximum-rectangular-arga-in-a-histogram-1387.11562.0/1 https://www.geeksforgeeks.org/problems/naxim-a-na-element-a-t-he-bottom-of-a-stack/1	Best Tutorial link - click to view	Article link-click to view
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		https://www.gooksforgooks.org/problems/port.o.gtook/12page=18.cstogop/			
	Sort stack(Solving above two can give you hint for this)	https://www.geeksforgeeks.org/problems/sort-a-stack/1?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/1?page=1			
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	Restrictive candy crush	https://www.geeksforgeeks.org/problems/restrictive-candy-crush141631/ 1?page=2&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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Queue - Data structure					
Basic pattern					
		https://www.geeksforgeeks.org/problems/implement-queue-using-array/1?	B 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	What is queue? Learn the basic representation and how its implemented?	page=1&category=Queue&sortBy=submissions https://www.geeksforgeeks.org/problems/implement-queue-using-linked-lis	Best Tutorial link - click to view	Article link-click to view	
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	Implement queue using stack(super imp)	1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Implement stack using queue(super imp)	https://www.geeksforgeeks.org/problems/stack-using-two-queues/1?page= 1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	, , , , , , , , , , , , , , , , , , ,	https://www.geeksforgeeks.org/problems/queue-reversal/1?page=1&categ			
	Reverse a queue	ory=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Implementation probs					
	Circular tour	https://www.geeksforgeeks.org/problems/circular-tour-1587115620/1?page =1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link eliek to view	
	Circulat tout	https://www.geeksforgeeks.org/problems/first-non-repeating-character-in-a	Dest Tutorial link - Click to view	Article IIIIA-CIICA IO VIEW	
	First non repeating char in stream	-stream1216/1?page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/reverse-first-k-elements-of-queue			
	Reverse first k elements in queue	/12page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	LRU Cache(super imp)	https://www.geeksforgeeks.org/problems/lru-cache/1?page=1&category=Q ueue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/minimum-cost-of-ropes-1587115			
	Minimum cost of ropes	620/1?page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Nearly sorted(Learn priority queue for sure)	https://www.geeksforgeeks.org/problems/nearly-sorted-1587115620/1?pag e=3&category=Arrays&difficulty=Medium	Best Tutorial link - click to view	Article link eliek to view	
Sliding Window - Technique	really sorted(ceall priority queue to sure)		Dest Totorial link - click to view	Article link-click to view	
(Dont skip this topic, I personally have been		https://leetcode.com/problems/find-all-anagrams-in-a-string/solutions/9200			
asked this topic in many interviews	on gfg generally	arch-problem/			
Fixed Sliding Window(Size of the					
window will be provided)					
		https://www.geeksforgeeks.org/problems/max-sum-subarray-of-size-k5313 /1?itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=botto			
	Maximum sum subarray of size k	m_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Count distinct element in every window(Once you understoor handling window size fixed from above prob, this will be easy)	https://www.geeksforgeeks.org/problems/count-distinct-elements-in-every- window/1?page=1&category=sliding-window&sortBy=submissions	Doct Transcription of the colors	Autological actions and actions	
	above prob, this will be easy)		Best Tutorial link - click to view	Article link-click to view	
	First negative integer in every window of size k(Try to solve on own before looking for soln since	https://www.geeksforgeeks.org/problems/first-negative-integer-in-every-wi ndow-of-size-k3345/1?page=1&category=sliding-window&sortBy=submissi			
	you did above topics too already	<u>ons</u>	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-siz e-k3101/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Waximum of all subarray of size k(11) to solve on own)	https://www.geeksforgeeks.org/problems/substrings-of-length-k-with-k-1-di	Dest ratorial link - click to view	ATTICLE HIR CHEK IO VIEW	
	Count substring of length k with k-1 distinct elements	stinct-elements/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/maximum-of-minimum-for-every-			
	Maximum of minimum for every window(Imp)	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)					
		https://www.geeksforgeeks.org/problems/subarray-with-given-sum-158711			
	Subarray with given sum	5621/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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	Longest subarray with given sum k(Same as above with slight modification)	9/12page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/subarray-with-0-sum-158711562	pest Tutorial link - Click to view	ATTIGIE IITK-CITCK TO VIEW	
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	Smallest window of distinct elements	age=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-2170637/1?page=2&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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	Length of longest substring  Largest subarray of 0s and 1s  Count of anagram occurence(Super imp)  Max consecutive ones III  Fruit into basket  Count number of nice subarrays  Longest repealing char replacement  Minimum window substring	aining-ail-the-charaters-of-another-string-158/11562/1/2page=18.categor yesliding-window8.sorfBy-submissions https://www.geeksforgeeks.org/problems/length-of-the-longest-substring30 36/17page=18.categony-silding-window8.sorfBy-submissions https://www.geeksforgeeks.org/problems/flargest-substray-of-0s-and-1s/12 page=18.categony-silding-window8.sorfBy-submissions https://www.geeksforgeeks.org/problems/count-occurences-of-anagrams5 839/17page=18.category-silding-window8.sorfBy-submissions https://deet.ode.com/problems/mac.consecutive-one-sil/ https://deet.ode.com/problems/flargest-repeating-character-replacement https://deet.ode.com/problems/flargest-repeating-character-replacement	Best Tutorial link - click to view	Article link-click to view	
	Length of longest substring  Largest substriay of 0s and 1s  Count of anagram occurrence(Super imp)  Max consecutive ones III  Fruit into basket  Count number of nice subarrays  Longest repealing char replacement  Minimum window substring  Minimum window substring	aining-all-the-charaters-of-another-string-158/11562/1/2page=18.categor yesliding-window8.sorffly-sushimissions  https://www.geeksforgeeks.org/problems/length-of-the-longest-substring30  361/Pagae=18.categon-yesliding-window8.sorffly-submissions  https://www.geeksforgeeks.org/problems/largest-subarray-of-0s-and-1s/12  page=18.categon-yesliding-window8.sorffly-submissions  https://www.geeksforgeeks.org/problems/count-occurences-of-anagrams5  839/17page=18.categony-siliding-window8.sorffly-submissions  https://leetoode.com/problems/max-consecutive-one-sili/  https://leetoode.com/problems/fount-number-of-nice-subarrays/  https://leetoode.com/problems/fount-number-of-nice-subarrays/  https://leetoode.com/problems/fount-number-of-nice-subarrays/  https://leetoode.com/problems/fount-number-of-nice-subarrays/  https://leetoode.com/problems/minimum-window-substring/description/	Best Tutorial link - click to view	Article link-click to view Article link-click to view Article link-click to view Article link-lick to view Article link-click to view Article link-click to view Article link-click to view Article link-click to view	
	Length of longest substring  Largest substring of 0s and 1s  Count of anagram occurence(Super imp)  Max consecutive ones III  Fruit into basket  Count number of nice subarrays  Longest repeating char replacement  Minimum window substring  Minimum window subsequence(Understand the diff between subarray and subsequence before starting this prob)	ainin-all-the-characters-of-another-string-158/115621/17page=18.category-spiding-windows.orffly-submissions https://www.geeksforgeeks.org/problems/length-of-the-longest-substring30 36/17page=18.category=sliding-windows.orffly-submissions https://www.geeksforgeeks.org/problems/largest-substrias-of-ba-and-1s/12 page=18.category=sliding-windows.orffly-submissions https://www.geeksforgeeks.org/problems/court-courences-of-anagrams5 839/17page=18.category=sliding-windows.orffly-submissions https://wetcode.com/problems/max-consecutiv-ones-iii/ https://deetcode.com/problems/mi-inito-baskets https://deetcode.com/problems/court-number-of-nice-subarrays/ https://deetcode.com/problems/court-number-of-nice-subarrays/ https://deetcode.com/problems/minimum-window-substring/description/ https://deetcode.com/problems/minimum-window-substring/description/	Best Tutorial link - click to view	Article link-click to view	
Trees - Data structure	Length of longest substring  Largest substriay of 0s and 1s  Count of anagram occurrence(Super imp)  Max consecutive ones III  Fruit into basket  Count number of nice subarrays  Longest repealing char replacement  Minimum window substring  Minimum window substring	aining-all-the-charaters-of-another-string-158/11562/1/2page=18.categor yesliding-window8.sorffly-sushimissions  https://www.geeksforgeeks.org/problems/length-of-the-longest-substring30  361/Pagae=18.categon-yesliding-window8.sorffly-submissions  https://www.geeksforgeeks.org/problems/largest-subarray-of-0s-and-1s/12  page=18.categon-yesliding-window8.sorffly-submissions  https://www.geeksforgeeks.org/problems/count-occurences-of-anagrams5  839/17page=18.categony-siliding-window8.sorffly-submissions  https://leetoode.com/problems/max-consecutive-one-sili/  https://leetoode.com/problems/fount-number-of-nice-subarrays/  https://leetoode.com/problems/fount-number-of-nice-subarrays/  https://leetoode.com/problems/fount-number-of-nice-subarrays/  https://leetoode.com/problems/fount-number-of-nice-subarrays/  https://leetoode.com/problems/minimum-window-substring/description/	Best Tutorial link - click to view	Article link-click to view	
Trees - Data structure	Length of longest substring  Largest substring of 0s and 1s  Count of anagram occurence(Super imp)  Max consecutive ones III  Fruit into basket  Count number of nice subarrays  Longest repeating char replacement  Minimum window substring  Minimum window subsequence(Understand the diff between subarray and subsequence before starting this prob)	ainin-all-the-characters-of-another-string-158/115621/17page=18.category-spiding-windows.orffly-submissions https://www.geeksforgeeks.org/problems/length-of-the-longest-substring30 36/17page=18.category=sliding-windows.orffly-submissions https://www.geeksforgeeks.org/problems/largest-substrias-of-ba-and-1s/12 page=18.category=sliding-windows.orffly-submissions https://www.geeksforgeeks.org/problems/court-courences-of-anagrams5 839/17page=18.category=sliding-windows.orffly-submissions https://wetcode.com/problems/max-consecutiv-ones-iii/ https://deetcode.com/problems/mi-inito-baskets https://deetcode.com/problems/court-number-of-nice-subarrays/ https://deetcode.com/problems/court-number-of-nice-subarrays/ https://deetcode.com/problems/minimum-window-substring/description/ https://deetcode.com/problems/minimum-window-substring/description/	Best Tutorial link - click to view	Article link-click to view	

	PreOrder Traversal	https://www.geeksforgeeks.org/problems/preorder-traversal/1?page=1&cat egory=Tree&sortBy=submissions	est Tutorial link - click to view	Articla link-click to viaw
		https://www.geeksforgeeks.org/problems/inorder-traversal/1?page=2&cate		
	InOrder Traversal	https://www.geeksforgeeks.org/problems/postorder-traversal/1?page=2&c	est Tutorial link - click to view	
	PostOrder Traversal	ategory=Tree&sortBy=submissions Be https://www.geeksforgeeks.org/problems/level-order-traversal/12page=1&	est Tutorial link - click to view	Article link-click to view
	Level Order Traversal	category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/boundary-traversal-of-binary-tree	est Tutorial link - click to view	Article link-click to view
	Boundary Traversal(Once level traversal is learnt, this you can solve)	/1?page=1&category=Tree&sortBy=submissions Be	est Tutorial link - click to view	Article link-click to view
	Vertical Traversal(Once level traversal is learnt, this you can solve, lil extra logic is needed)		est Tutorial link - click to view	Article link-click to view
	Top View of BT(Once you have mastered level traversal, this should be easy)	https://www.geeksforgeeks.org/problems/top-view-of-binary-tree/1?page=1 &category=Tree&sortBy=submissions Be	est Tutorial link - click to view	Article link-click to view
	Bottom View of BT(Once you have mastered level traversal, this should be easy)	https://www.geeksforgeeks.org/problems/bottom-view-of-binary-tree/1?pag e=1&category=Tree&sortBy=submissions Be	est Tutorial link - click to view	Article link-click to view
	Left View of BT(Once you have mastered vertical traversal, this should be easy)	https://www.geeksforgeeks.org/problems/left-view-of-binary-tree/1?page=1		Article link-click to view
	Right View of BT(Once you have mastered vertical traversal, this should be easy)	https://www.geeksforgeeks.org/problems/right-view-of-binary-tree/1?page=	est Tutorial link - click to view	
		https://www.geeksforgeeks.org/problems/diagonal-traversal-of-binary-tree/		
Basic and Easy patterns(Try to solve	Diagonal Traversal	1?page=3&category=Tree&sortBy=submissions Be	est Tutorial link - click to view	Article link-click to view
these once you learnt traversals)	Insert node in a tree	Re	est Tutorial link - click to view	Article link-click to view
	Height of the tree	https://www.geeksforgeeks.org/problems/height-of-binary-tree/1?page=1&		
		https://www.geeksforgeeks.org/problems/diameter-of-binary-tree/1?page=	est Tutorial link - click to view	
	Diameter of the tree	https://www.geeksforgeeks.org/problems/determine-if-two-trees-are-identic	est Tutorial link - click to view	
	Check if 2 trees are identical	al/1?page=1&category=Tree&sortBy=submissions  https://www.geeksforgeeks.org/problems/check-if-subtree/1?page=2&cate	est Tutorial link - click to view	Article link-click to view
	Check if subtree	gory=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/check-for-balanced-tree/1?page=	est Tutorial link - click to view	Article link-click to view
	Check for balanced tree	1&category=Tree&sortBy=submissions Be	est Tutorial link - click to view	Article link-click to view
	Lowest common Ancestor in BT		est Tutorial link - click to view	Article link-click to view
	Sum tree		est Tutorial link - click to view	Article link-click to view
	Symmetric tree		est Tutorial link - click to view	Article link-click to view
	Mirror of a tree	https://www.geeksforgeeks.org/problems/mirror-tree/1?page=1&category= Tree&sortBy=submissions Be	est Tutorial link - click to view	Article link-click to view
	Check if isomorphic	https://www.geeksforgeeks.org/problems/check-if-tree-is-isomorphic/1?pag e=2&category=Tree&sortBv=submissions	est Tutorial link - click to view	Article link-click to view
Path and Distance				
	Root to leaf paths	https://www.geeksforgeeks.org/problems/root-to-leaf-paths/1?page=4&cat egory=Tree&sortBy=submissions	est Tutorial link - click to view	Article link-click to view
	Root to leaf path sum (Once the root to leaf path is solved, this should be easy)		est Tutorial link - click to view	Article link-click to view
	Maximum path sum from any node(Once the root to leaf path is solved, this should be easy)	https://www.geeksforgeeks.org/problems/maximum-path-sum-from-any-no de/1?page=3&category=Tree&sortBy=submissions	est Tutorial link - click to view	Article link-click to view
	K Sum Paths (Once the root to leaf path is solved, this should be easy)	https://www.geeksforgeeks.org/problems/k-sum-paths/1?page=3&category =Tree&sortBy=submissions	est Tutorial link - click to view	Article link-click to view
	Nodes at given distance	https://www.geeksforgeeks.org/problems/nodes-at-given-distance-in-binar	est Tutorial link - click to view	
	Range sum of BST(Solving nodes at given distance, will make this easy)	Be	est Tutorial link - click to view	
	Minimum distance between 2 nodes(Solving nodes at given distance, will make this easy)	https://www.geeksforgeeks.org/problems/min-distance-between-two-given-nodes-of-a-binary-tree/1?page=2&category=Tree&sortBy=submissions	est Tutorial link - click to view	Article link-click to view
	Maximum distance between node and ancestor(Must solve though distance pattern is covered)	https://www.geeksforgeeks.org/problems/maximum-difference-between-no de-and-its-ancestor/1?page=3&category=Tree&sortBy=submissions	est Tutorial link - click to view	Article link-click to view
	Min time to burn a tree(Using distance logic, this can be sovled)	https://www.geeksforgeeks.org/problems/burning-tree/1?page=4&category =Tree&sortBy=submissions	est Tutorial link - click to view	Article link-click to view
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? Insert a node in BST		est Tutorial link - click to view est Tutorial link - click to view	Article link-click to view
	Search a value in BST(Learn efficient algo to do it, since this can be handled efficiently in BST than BT)		est Tutorial link - click to view	
		https://www.geeksforgeeks.org/problems/max-and-min-element-in-binary-t		
	Find minimum and maximum in BST Find the Kth largest element/kth Smallest in BST(Try to solve it without looking for soln, once you	https://www.geeksforgeeks.org/problems/kth-largest-element-in-bst/1?pag		Article link-click to view
	have mastered all the above patterns, this should be easy)	https://www.geeksforgeeks.org/problems/check-for-bst/1?page=1&categor		Article link-click to view
	Check for BST(Try solving probs in this pattern by yourself till LCA once above are solved)	y=Tree&sortBy=submissions Be https://www.geeksforgeeks.org/problems/find-the-closest-element-in-bst/1	est Tutorial link - click to view	
	Find the closest element in BST	?page=3&category=Tree&sortBy=submissions Be https://www.geeksforgeeks.org/problems/count-bst-nodes-that-lie-in-a-give	est Tutorial link - click to view	
	Count BST nodes in the given range	n-range/1?page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/largest-bst/1?page=2&category=	est Tutorial link - click to view	Article link-click to view
	Largest BST in BT(Super imp - Must solve)	Tree&sortBy=submissions Be	est Tutorial link - click to view	Article link-click to view
	Lowest Common Ancestor in BST		est Tutorial link - click to view	Article link-click to view
	Merge two BST(Super imp - Must solve)	https://www.geeksforgeeks.org/problems/merge-two-bst-s/1?page=4&cate gory=Tree&sortBy=submissions	est Tutorial link - click to view	

		https://www.geeksforgeeks.org/problems/predecessor-and-successor/1?p			
		age=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/populate-inorder-successor-for-al	Best Tutorial link - click to view	Article link-click to view	
	Populate inorder successor for all nodes	I-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/1?page= 8&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	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 derive at the solution, then start coding it by yourself)	https://www.geeksforgeeks.org/problems/construct-tree-1/1?page=1&cate gory=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Construct Binary Tree from Inorder and Postorder Traversal	https://leetcode.com/problems/construct-binary-tree-from-inorder-and-post order-traversal/	Best Tutorial link - click to view	Article link-click to view	
	Construct BST from given preorder traversal	https://www.geeksforgeeks.org/problems/construct-tree-from-preorder-trav ersal/1?page=7&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Construct BT from parent array	https://www.geeksforgeeks.org/problems/construct-binary-tree-from-parent-array/1?page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Subtree & Other must do tree probs					
	Serialize and deserialize BT	https://www.geeksforgeeks.org/problems/serialize-and-deserialize-a-binary- tree/1?page=4&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/largest-subtree-sum-in-a-tree/1?	Best Tutorial link - click to view	Article link-click to view	
	Largest subtree sum in a tree	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/1?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/1 ?page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Backtrocking & Bacyroine		https://leetcode.com/discuss/general-discussion/680269/a-general-approach-to-backtracking-problems-in-cexhaustive-sear			
Backtracking & Recursion advanced - Technique		neral-approach-to-backtracking-problems-in-cexhaustive-sear ching			
Basic patterns and must solve(Each prob in this pattern will teach you something and also as you solve, you will start mastering it though initially it takes sometime)	Understand the basics of backtracking and start solving				
takes sometime)		https://www.geeksforgeeks.org/problems/permutations-of-a-given-string20			
	•	41/1?page=1&category=Backtracking&sortBy=submissions https://leetcode.com/problems/permutations-ii	Best Tutorial link - click to view Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/combination-sum-1587115620/1 2page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Combination sum II(Once you solve combination I, you should be able to solve this and below 2				
		https://leetcode.com/problems/combination-sum-ii https://leetcode.com/problems/combination-sum-iii	Best Tutorial link - click to view Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/rat-in-a-maze-problem/1?page=1 &category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/possible-words-from-phone-digits -1587115620/1?page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/subsets-1613027340/1?page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/subsets-1587115621/1?page=1&			
		category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/n-queen-problem0315/1?page=1	Best Tutorial link - click to view	Article link-click to view	
	N-Queen(Super imp)	&category=Backtracking&sortBy=submissions https://leetcode.com/problems/n-queens-ii	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/permutation-with-spaces3627/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/generate-all-possible-parenthese s/1?page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/generate-ip-addresses/1?page=1 &category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/solve-the-sudoku-1587115621/1			
	Solve the sudoku	?page=1&category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/find-kth-permutation/1?page=2&	Best Tutorial link - click to view		
	kth permutation	category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/word-search/1?page=3&category	Best Tutorial link - click to view	Article link-click to view	
	Word search	=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Palindrome partition of string	https://www.geeksforgeeks.org/problems/find-all-possible-palindromic-partitions-of-a-string/1?page=2&category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/decode-the-string2444/1?page=1	Best Tutorial link - click to view	Article link-click to view	
	Decode the string	&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
		https://leetcode.com/problems/letter-case-permutation/ https://www.geeksforgeeks.org/problems/sum-string3151/1?page=1&categ	Best Tutorial link - click to view	Article link-click to view	
	sum string	ory=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	word boggle	https://www.geeksforgeeks.org/problems/word-boggle4143/1?page=1&cat egory=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Largest number in k swaps	https://www.geeksforgeeks.org/problems/largest-number-in-k-swaps-1587 115620/1?page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Partition array to k subsets	https://www.geeksforgeeks.org/problems/partition-array-to-k-subsets/1?pa ge=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Graphs - Data structure	Most of the probs in this topics can be solved once you learn first couple of probs in each pattern of this topics	https://leetcode.com/discuss/general-discussion/655708/graph-for-beginne			
Traversals & Basic	Understand how graph is represented?	rs-problems-pattern-sample-solutions/	Best Tutorial link - click to view		
	BFS Traversal(Super imp and basic)	https://www.geeksforgeeks.org/problems/bfs-traversal-of-graph/1?page=1 &category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/depth-first-traversal-for-a-graph/1			
	DFS Traversal(Super imp and basic)	?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	

		https://www.geeksforgeeks.org/problems/detect-cycle-in-a-directed-graph/		
	Detect cycle in 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-gra ph/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-cycle3504/1?pa ge=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
Connected component(After traversal,	Detect regative cycle in graph	ge=zacategory=Graphiasortey=submissions	Dest rutorial link - click to view	Auticle Hilk-Cilck to view
this will be easy to solve)	Connected component(Once you master this , all the below using this pattern will become super	https://practice.geaksforgeaks.org/problems/strongly.connected.compone		
	easy)	<u>nt-tarjanss-algo-1587115621/1</u>	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/1?pag e=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/number-of-distinct-islands/1?pag		
	Number of distinct island	e=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/find-number-of-closed-islands/12	Best Tutorial link - click to view	Article link-click to view
	Number of closed island	page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
Bipartite		https://www.geeksforgeeks.org/problems/bipartite-graph/1?page=1&categ		
	Bipartite graph	ory=Graph&sortBy=submissions https://practice.geeksforgeeks.org/problems/m-coloring-problem-15871156	Best Tutorial link - click to view	Article link-click to view
	M-colouring	20/1	Best Tutorial link - click to view	Article link-click to view
Shortest Path	Find shortest path in UG(Once you learn this, try to solve other probs in this pattern by yourself)	https://www.codingninjas.com/studio/problems/shortest-path-in-an-unweig hted-graph_981297	Best Tutorial link - click to view	Article link-click to view
	Find shortest path in DAG	https://www.geeksforgeeks.org/problems/shortest-path-in-undirected-grap h/1?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	
		https://www.geeksforgeeks.org/problems/implementing-dijkstra-set-1-adjac		
	Djikstra Algo	ency-matrix/12page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/steps-by-knight5927/12page=1&	Best Tutorial link - click to view	Article link-click to view
	Step by Knight	category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Shortest path source to destiny	https://www.geeksforgeeks.org/problems/shortest-source-to-destination-path3544/1?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Find if path exists	https://www.geeksforgeeks.org/problems/find-whether-path-exist5238/1?page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/covid-spread141631/1?page=4	Best Tutorial link - click to view	
	Covid spread	<pre>&amp;category=Graph&amp;sortBy=submissions https://www.geeksforgeeks.org/problems/minimum-cost-path3833/1?page</pre>		Article link-click to view
	Minimum cost path	=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/word-ladder/1?page=3&category	Best Tutorial link - click to view	Article link-click to view
	Word ladder I	=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Word ladder II	https://www.geeksforgeeks.org/problems/word-ladder-ii/1?page=3&categorg=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Floyd warshal algo	https://www.geeksforgeeks.org/problems/implementing-floyd-warshall2042 /12page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Bellmanford algo(Imp - Will be used for negative cycle)	https://www.geeksforgeeks.org/problems/distance-from-the-source-bellma n-ford-algorithm/1?page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	
Multi Source	Delimation algo(trip - 1111 be used for negative cycle)	II-lord-algoritation is page-zacategory-Graphicsoriby-submissions	Dest ratorial link - click to view	AUDICE HINGGIGA TO VIEW
	Flood fill	https://www.geeksforgeeks.org/problems/flood-fill-algorithm1856/1?page= 1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Replace O's with X's(Below can be solved easily in this pattern once you learnt flood fill)	https://www.geeksforgeeks.org/problems/replace-os-with-xs0052/1?page=	Best Tutorial link - click to view	Article link-click to view
		1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/length-of-largest-region-of-1s-15		
	Unit area of largest region of 1s	87115620/1?page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/rotten-oranges2536/1?page=1&c	Best Tutorial link - click to view	Article link-click to view
	Rotten Oranges	ategory=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
Topological sort		https://www.geeksforgeeks.org/problems/topological-sort/1?page=1&categ		
	Topological sort algo(Learning this algo, will make you solve all the probs in this pattern)	ory=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Prerequisite tasks	$linear_$	Best Tutorial link - click to view	Article link-click to view
	Course schedule I	https://www.geeksforgeeks.org/problems/course-schedule/1?page=3&cate gory=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Course schedule II	https://leetcode.com/problems/course-schedule-ii	Best Tutorial link - click to view	Article link-click to view
	Eventual safe states	https://www.geeksforgeeks.org/problems/eventual-safe-states/1?page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Alien dictionary	https://www.geeksforgeeks.org/problems/alien-dictionary/1?page=1&categ ory=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
Minimum Spanning Tree				
	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/1?page= 1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Kruskals algo	https://www.codingninjas.com/studio/problems/code-kruskal-s-algorithm_6 320	Best Tutorial link - click to view	Article link-click to view
	Minimum cost to connect cities	https://leetcode.com/problems/connecting-cities-with-minimum-cost	Best Tutorial 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	
Disjoint set	Optimize water distribution	https://leetcode.com/problems/optimize-water-distribution-in-a-village	Best Tutorial link - click to view	STRUCTURE TO AIGM
	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-con	Best Tutorial link - click to view	Article link-click to view
	Networks connected	nected/	Best Tutorial link - click to view	Article link-click to view
	Minimum swaps to sort	https://www.geeksforgeeks.org/problems/minimum-swaps/1?page=1&cate gory=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Santa Banta	https://www.geeksforgeeks.org/problems/santa-banta2814/1?page=3&cat egory=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view

		https://www.geeksforgeeks.org/problems/number-of-pairs-1645358985/1?		
	Number of pairs	page=5&category=Graph&sortBy=submissions	Best Tutorial 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	
Must solve imp algos	making a large island	maps.//ecicode.comproblemamaking-a-large-island	DESC TUTORIES INIK - CITCK TO VIEW	ASSISTED THE CHICK TO VIEW
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	Bridges in graph	category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/articulation-point-1/1?page=3&ca	Best Tutorial link - click to view	Article link-click to view
	Articulation point	tegory=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Critical connection	https://www.geeksforgeeks.org/problems/critical-connections/1?page=5&c ategory=Graph&sortBy=submissions	Best Tutorial link - click to view	Article 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-boggle4143/1?page=2&cat	Best Tutorial link - click to view	Article link-click to view
	Word boggle II	https://www.geeksforgeeks.org/problems/word-boggle4143/17page=2&cat	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-1587 115620/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	, ,	https://www.geeksforgeeks.org/problems/find-optimum-operation4504/1?p		
	Minimum operations	age=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Minimize the sum of product	https://www.geeksforgeeks.org/problems/minimize-the-sum-of-product152 5/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Largest number possible	https://www.geeksforgeeks.org/problems/largest-number-possible5028/1? page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link click to view
		https://www.geeksforgeeks.org/problems/lemonade-change/1?page=2&cat		
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	Activity selection prob(Super imp)	https://www.geeksforgeeks.org/problems/activity-selection-1587115620/1? page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
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	N meetings in a room(Super imp)	5620/1?page=1&category=Greedy&sortBy=submissions https://www.geeksforgeeks.org/problems/minimum-platforms-1587115620/	Best Tutorial link - click to view	Article link-click to view
	Minimum platforms	1?page=1&category=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/1?page=2 &category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Minimum number of coins using greedy(This can be solved using naive, DP also but make sure	https://www.geeksforgeeks.org/problems/-minimum-number-of-coins4426/		
	to use greedy here)	1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Job sequencing prob	https://www.geeksforgeeks.org/problems/job-sequencing-problem-158711 5620/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Fractional knapsack	https://www.geeksforgeeks.org/problems/fractional-knapsack-1587115620/		And the second s
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	Jump game	=Greedy&sortBy=submissions	Best Tutorial link - click to view	
	Insert interval Merge interval	https://leetcode.com/problems/insert-interval/ https://leetcode.com/problems/merge-intervals/	Best Tutorial link - click to view Best Tutorial link - click to view	
	Non overlapping interval	https://leetcode.com/problems/non-overlapping-intervals/	Best Tutorial link - click to view	
		https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes-15871		
	Minimum cost of ropes Partition labels	https://leetcode.com/problems/partition-labels/	Best Tutorial link - click to view  Best Tutorial link - click to view	
	Cinema seat allocation	https://leetcode.com/problems/cinema-seat-allocation/	Best Tutorial link - click to view	
		https://www.geeksforgeeks.org/problems/max-length-chain/1?page=1&cat		
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	Valid parantheses - Minimum	valid/	Best Tutorial link - click to view	Article link-click to view
	Shortest job first	https://practice.geeksforgeeks.org/problems/shortest-job-first/1	Best Tutorial link - click to view	
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Dynamic Programming -	Least recently used  DP is super crucial topic and very commonly asked in many interviewell One major thing you need to know is, dont start with tabulation approach directly, thats wrong way to learn DP. First find the solution using recursion, then memoization and then finally tabulation and space	https://practice.geeksforgeeks.org/problems/fru-cache/17/utm_source=yout_ ube&utm_medium=collab_fraz_websitelink&utm_campaign=LRU+Cache https://leetcode.com/discuss/general-discussion/662866/dp-for-beginners-		
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Technique Basic 1D - Linear DP	DP is super crucial topic and very commonly asked in many interviews!! One major thing you need to know is, don't start with tabulation approach directly, thats wrong way to learn DP. First find the solution using recursion, then memoization and then finally tabulation and space reduction in tabulation.  Understand the basics!!  Count num of hops  Count way to reach nth stair(Order matters)  Count way to reach nth stair(Order doesn't matter) House robber II	ube&ulm_medium=collab_fraz_websitelink&ulm_campaign=LRU+Cache  bitos://leetcode.com/discuss/general-discussion/662866/dp-for-beginners- problems-patterns-sample-solutions  https://www.geeksforgeeks.org/problems/count-number-of-hops-158711566 2017page=2&category=Dynamic3k20Programming&sortBy=submissions bitos://www.geeksforgeeks.org/problems/count-ways-to-reach-the-rith-stail- 1587115620/Tpage=2&category=Dynamic3k20Programming&sortBy=submissions bitos://www.geeksforgeeks.org/problems/count-ways-to-rith-stairorder-doe- s-not-matter-663917page=4&category=Dynamic3k20Programming&sortBy= submissions bittps://leetcode.com/problems/house-robber-/i/ bitos://leetcode.com/problems/house-robber-i/ bitos://www.geeksforgeeks.org/problems/count-the-paths4332/17page=5& category=Dynamic3k20Programming&sortBy=submissions bittps://decode.com/problems/house-paths-i/buts/leetcode.com/problems/house-paths-i	Best Tutorial link - click to view	Article link-click to view
Technique Basic 1D - Linear DP	DP is super crucial topic and very commonly asked in many intensives (One major thing you reed to know is, don't start with tabulation approach directly, thats wrong way to learn DP. First find the solution using ecursion, then memoration and then finally fabulation and epace reduction in tabulation.  Understand the basics!!  Count num of hops  Count way to reach nth stair(Order matters)  Count way to reach nth stair(Order doesn't matter)  House robber II  Count paths - grid  Unique paths II  Count all possible paths with condition(You can solve this by yourself once above two are	ube&ulm_medium=collab_fraz_websitelink&ulm_campaign=LRU+Cache  bitos://leetcode.com/discuss/general-discussion/662866/dp-for-beginners- problems-patterns-sample-solutions  bitos://www.geeksforgeeks.org/problems/count-number-of-hops-15871156 2011?page=2&category=Dynamic3k20Programming&sorfBy=submissions bitos://www.geeksforgeeks.org/problems/count-ways-to-reach-the-nth-stair 1587115620/Programming&sorfBy=submissions bitos://www.geeksforgeeks.org/problems/count-ways-to-rith-stairorder-doe- s-not-matter-66391?page=4&category=Dynamic3k20Programming&sorfBy= submissions bitos://www.geeksforgeeks.org/problems/count-ways-to-rith-stairorder-doe- s-not-matter-66391?page=4&category=Dynamic3k20Programming&sorfBy- submissions bitps://leetcode.com/problems/house-robber-i// bitos://leetcode.com/problems/house-robber-i// bitos://www.geeksforgeeks.org/problems/count-the-paths4332/1?page=5& category=Dynamic3k20Programming&sorfBy=submissions bitos://www.geeksforgeeks.org/problems/count-all-possible-paths-from-top- deft-to-bottom-prolifol1011/12gage=3&category=Dynamic3k20Programming&	Best Tutorial link - click to view	Article link-click to view
Technique Basic 1D - Linear DP	DP is super-crucial topic and very commonly asked in many interviews!! One major thing you need to know is, don't start with fabulation approach directly, thats wrong way to learn DP. First find the solution using recursion, then memorization and then finally fabulation and space reduction in fabulation.  Understand the basics!!  Count num of hops  Count way to reach nth stair(Order matters)  Count way to reach nth stair(Order doesn't matter) House robber II  Count paths - grid Unique paths II  Count all possible paths with condition(You can solve this by yourself once above two are solved)	ube&ulm_medium=collab_fraz_websitelink&ulm_campaign=LRU+Cache  https://leetoode.com/discuss/general-discussion/662866/dp-for-beginners- problems-patterns-sample-solutions  https://www.geeksforgeeks.org/problems/count-number-of-hops-15871156 20/17page=2&categony=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/count-ways-to-enth-enth-stair1587115620/17page=2&categony=Dynamic%20Programming&sortBy=submissions  https://www.geeksforgeeks.org/problems/count-ways-to-enth-stairorder-doe- s-not-matter5659/17page=4&categony=Dynamic%20Programming&sortBy =submissions  https://leetoode.com/problems/house-robber-i//  https://www.geeksforgeeks.org/problems/count-the-paths-4332/17page=5& categony=Dynamic%20Programming&sortBy=submissions  https://www.geeksforgeeks.org/problems/count-the-paths-4332/17page=5& categony=Dynamic%20Programming&sortBy=submissions  https://www.geeksforgeeks.org/problems/count-the-paths-4332/17page=5& categony=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view  Best Tutorial link - click to view	Article link-click to view
Technique Basic 1D - Linear DP	DP is super crucial topic and very commonly asked in many intensives (One major thing you reed to know is, don't start with tabulation approach directly, thats wrong way to learn DP. First find the solution using ecursion, then memoration and then finally fabulation and epace reduction in tabulation.  Understand the basics!!  Count num of hops  Count way to reach nth stair(Order matters)  Count way to reach nth stair(Order doesn't matter)  House robber II  Count paths - grid  Unique paths II  Count all possible paths with condition(You can solve this by yourself once above two are	ube&ulm_medium=collab_fraz_websitelink&ulm_campaign=LRU+Cache  bitos://leetcode.com/discuss/general-discussion/662866/dp-for-beginners- problems-patterns-sample-solutions  bitos://www.geeksforgeeks.org/problems/count-number-of-hops-15871156 2011?page=2&category=Dynamic3k20Programming&sorfBy=submissions bitos://www.geeksforgeeks.org/problems/count-ways-to-reach-the-nth-stair 1587115620/Programming&sorfBy=submissions bitos://www.geeksforgeeks.org/problems/count-ways-to-rith-stairorder-doe- s-not-matter-66391?page=4&category=Dynamic3k20Programming&sorfBy= submissions bitos://www.geeksforgeeks.org/problems/count-ways-to-rith-stairorder-doe- s-not-matter-66391?page=4&category=Dynamic3k20Programming&sorfBy- submissions bitps://leetcode.com/problems/house-robber-i// bitos://leetcode.com/problems/house-robber-i// bitos://www.geeksforgeeks.org/problems/count-the-paths4332/1?page=5& category=Dynamic3k20Programming&sorfBy=submissions bitos://www.geeksforgeeks.org/problems/count-all-possible-paths-from-top- deft-to-bottom-prolifol1011/12gage=3&category=Dynamic3k20Programming&	Best Tutorial link - click to view	Article link-click to view

	Minimum path sum in triangular grid	https://leetcode.com/problems/triangle/	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/number-of-paths-in-a-matrix-with		
		-k-coins2728/1?page=7&category=Dynamic%20Programming&sortBy=su		
	Number of paths with k coins	bmissions	Best Tutorial link - click to view	Article link-click to view
	Minimum/Maximum falling path sum	https://leetcode.com/problems/minimum-falling-path-sum	Best Tutorial link - click to view	Article link-click to view
	Minimum falling path sum II	https://leetcode.com/problems/minimum-falling-path-sum-ii	Best Tutorial link - click to view	
DP on subsequence	minimum raining pater state in	mapo.meetoode.comproblemammammammammammammammammammammammammam	Door rational link Chok to view	A tible in M diek to You
DP on subsequence				
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		8/1?page=1&category=Dynamic%20Programming&status=solved&sortBy		
	Subset sum problem	<u>=submissions</u>	Best Tutorial link - click to view	Article link - click to view
		https://www.geeksforgeeks.org/problems/perfect-sum-problem5633/1?pag		
	Count subset with given sum k	e=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view
		https://www.geeksforgeeks.org/problems/subset-sum-problem2014/1?pag		
	Partition equal subset sum(Try to do it on own after solving above two, just a small trick)	e=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/minimum-sum-partition3317/1?p		
	Minimum sum partition	age=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	
	Count partition with given diff		Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/0-1-knapsack-problem0945/1?pa		
	0-1 Knapsack	ge=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/max-sum-without-adjacents2430/		
	Maximum non adjacent subsequence	1?page=3&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/coin-change2448/1?page=1&cat		
	Coin change	egory=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/number-of-coins1824/1?page=2		
	Min number of coins	&category=Dvnamic%20Programming&sortBv=submissions	Best Tutorial link - click to view	Article link-click to view
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		https://leetcode.com/problems/target-sum		
	Target sum	https://eetcode.com/problems/target-Sum	Best Tutorial link - click to view	
		Lancon Control		
	Minimum cost to fill given weight in hea/Solving the above probe in this pattern will ===1:= 45:=	https://www.geeksforgeeks.org/problems/minimum-cost-to-fill-given-weight		
	Minimum cost to fill given weight in bag(Solving the above probs in this pattern will make this super easy)	-in-a-bag1956/1?page=3&category=Dynamic%20Programming&status=so lved&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	oupoi ouoji		Dock Tationian link - click to view	A SHOOL WITH CHICK CO THEY
	Knapsack with duplication items	https://www.geeksforgeeks.org/problems/knapsack-with-duplicate-items42 01/1?page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Atticle link click to view
	Kriapsack with dupitcation items	01/11:page=2&category=Dyriamic %20Frogramming&sortby=submissions	Best Tutorial link - Click to view	Article link-click to view
DP on Increasing subsequence				
	Longest increasing subsequence	https://leetcode.com/problems/longest-increasing-subsequence/	Best Tutorial link - click to view	
	Print longest increasing subsequence		Best Tutorial link - click to view	Article link-click to view
	Longest bitonic subsequence(Solve on own, definitely you can do it once the above two are	https://www.geeksforgeeks.org/problems/longest-bitonic-subsequence082		
	solved)	4/1?page=4&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Longest divisible subset(This and the below are just extended version of longest increasing			
	subsequence, so try on own	https://leetcode.com/problems/largest-divisible-subset/	Best Tutorial link - click to view	Article link-click to view
	Longest string chain	https://leetcode.com/problems/longest-string-chain/	Best Tutorial link - click to view	Article link-click to view
		https://leetcode.com/problems/number-of-longest-increasing-subsequence		
	Num of longest increasing subsequence	/	Best Tutorial link - click to view	Article link-click to view
DP on strings(Using Longest common				
subsequence pattern)				
,		https://www.geeksforgeeks.org/problems/longest-common-subsequence-1		
	Longest common subsequence(Once you learn this pattern, all probs under this pattern can be	587115620/1?page=1&category=Dynamic%20Programming&sortBy=sub		
	solved by yourself)	missions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/print-all-lcs-sequences3413/1?pa		
	Print Longest common subsequence(Here you will need to print the string so must solve)	ge=7&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Longest palindromic subsequence	https://leetcode.com/problems/longest-palindromic-subsequence	Best Tutorial link - click to view	
		https://leetcode.com/problems/minimum-insertion-steps-to-make-a-string-p		
	Form a palindrome with minimum insertions	alindrome	Best Tutorial link - click to view	Article link-click to view
	Totti a paintatorie with minimum insertions			CATAGO INICARA TO VICIN
		https://www.geeksforgeeks.org/problems/minimum-number-of-deletions-and-insertions0209/1?page=4&category=Dynamic%20Programming&sortBy		
	Min num of deletions and insertions to make string s1 equal to s2	=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/shortest-common-supersequenc		
		e0322/1?page=2&category=Dynamic%20Programming&sortBy=submissio		
	Shortest common supersequence	ns	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/longest-common-substring1452/		
	Longest common substring/subarray	1?page=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	,	https://www.geeksforgeeks.org/problems/longest-palindrome-in-a-string34		_
	Longest palindromic substring	11/1?page=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/longest-repeating-subsequence2		
		004/1?page=2&category=Dynamic%20Programming&status=solved&sort		
	Longest repeating subsequence	By=submissions	Best Tutorial link - click to view	Article link-click to view
DP on string				
-		https://www.geeksforgeeks.org/problems/edit-distance3702/1?page=1&cat		
	Edit distance (All the probs in this pattern are super imp, each prob is different so do solve all)	egory=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/distinct-occurrences/1?page=3&		
	Distinct occurence	category=Dynamic%20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view	
		https://www.geeksforgeeks.org/problems/wildcard-pattern-matching/1?pag		
	Wildcard pattern matching	e=4&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/longest-valid-parentheses5657/1	OLONG	
	Longest valid parentheses	?page=3&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	- V		The same of the sa	
	Word break	https://www.geeksforgeeks.org/problems/word-break1352/1?page=3&cate gory=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
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	Word break II	https://www.geeksforgeeks.org/problems/word-break-part-23249/1?page= 5&category=Dvnamic%20Programming&sortBy=submissions		Article link-click to view
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	Word wrap	https://www.geeksforgeeks.org/problems/word-wrap1646/1?page=4&categ ory=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Atticle link-click to view
	word wrap		Descriptional link - Click to view	PULICIO IIIIN-CIICA LO VIGW
	Interleaved strings	https://www.geeksforgeeks.org/problems/interleaved-strings/1?page=3&ca	Best Tutorial link - click to view	Article link-click to view
DP on stocks(Was asked in one of my	interieaved surilys	tegory=Dynamic%20Programming&sortBy=submissions	Descriptional link - Click to View	ALICE HIN-CHOK IO VIEW
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 II(Once you solve the above prob, all probs in this pattern are ext	https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/	Best Tutorial link - click to view	Article 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://leetcode.com/problems/best-time-to-buy-and-sell-stock-iv/	Best Tutorial link - click to view	
		https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-cooldo		
	Best time to buy and sell stock with cooldown	wn/	Best Tutorial link - click to view	Article link-click to view
	· ·	https://leetcode.com/problems/best-time-to-buy-and-sell-stock-with-transac		
	Best time to buy and sell stock with transaction fee	tion-fee/	Best Tutorial link - click to view	Article link-click to view
DP on partition and MCM				
	Matrix chain multiplication(Quite tricky pattern, every prob is diff and teaches something so do	https://www.geeksforgeeks.org/problems/matrix-chain-multiplication0303/1		
	solve all)	?page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Minimum cost to cut stick	https://leetcode.com/problems/minimum-cost-to-cut-a-stick/	Best Tutorial link - click to view	
	William Cost to Cut stick		Dest Tatorial link - Click to view	Patiel invener to view
	Burst balloons	https://www.geeksforgeeks.org/problems/burst-balloons/1?page=8&catego ry=Dvnamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Suit suitono	https://www.geeksforgeeks.org/problems/boolean-parenthesization5610/1	DOC TOLONG MIKE SHOK TO YOU	Catalog and Great Great
	Boolean Parenthesization	?page=3&category=Dvnamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
		https://www.qeeksforgeeks.org/problems/palindromic-patitioning4845/1?pa		
	Palindrom partitioning	ge=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	Partition array for max sum	https://leetcode.com/problems/partition-array-for-maximum-sum/	Best Tutorial link - click to view	
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	Max rectangles area with all 1s	https://www.geeksforgeeks.org/problems/max-rectangle/12page=3&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link click to view
	Count square submatrices	https://leetcode.com/problems/count-square-submatrices-with-all-ones/	Best Tutorial link - click to view	
	Count square submatrices	https://ieetcode.com/problems/count-square-submatrices-with-air-ones/	Best Tutorial link - Click to view	Article link-click to view
Heaps - Data structure				
Basic patterns				
	What is heap? Understand the data structure		Best Tutorial link - click to view	Article link-click to view
	Min heap implementation	Min Heap Implementation - Coding Ninjas	Best Tutorial link - click to view	
	Max heap implementation	https://www.gatevidyalay.com/tag/max-heap-questions/	Best Tutorial link - click to view	
	, p	https://www.geeksforgeeks.org/problems/convert-min-heap-to-max-heap-1	THE PART OF THE PA	
	Convert min heap to max heap	666385109/1	Best Tutorial link - click to view	Article link-click to view
Top k pattern				
		https://www.geeksforgeeks.org/problems/k-largest-elements4206/1?page=		
	kth largest in array	1&category=Heap&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view
	kth smallest in array		Best Tutorial link - click to view	
	Too k frequent elements	https://www.com/com/com/com/com/com/com/com/com/com/		
		https://leetcode.com/problems/top-k-frequent-elements/	Best Tutorial link - click to view	
	Top k frequent words	https://leetcode.com/problems/top-k-frequent-words	Best Tutorial link - click to view	
	Frequency sort	https://leetcode.com/problems/sort-characters-by-frequency/	Best Tutorial link - click to view	Article link-click to view
		https://www.geeksforgeeks.org/problems/kth-largest-element-in-a-stream2		
	kth largest num in streams	220/1?page=1&category=Heap&sortBy=submissions	Best Tutorial link - click to view	
	Reorganize string	https://leetcode.com/problems/reorganize-string/	Best Tutorial link - click to view	
	Reorganize string k distance apart	https://leetcode.com/problems/rearrange-string-k-distance-apart	Best Tutorial link - click to view	Article link-click to view
		https://leetcode.com/problems/find-the-kth-smallest-sum-of-a-matrix-with-s		
	kth smallest sum of matrix	orted-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	Article link-click to view
Merge k sorted pattern				
	Merge k sorted array	https://practice.geeksforgeeks.org/problems/merge-k-sorted-arrays/1	Best Tutorial link - click to view	Article link-click to view
	k pairs with smallest sum	https://leetcode.com/problems/find-k-pairs-with-smallest-sums/	Best Tutorial link - click to view	Article link-click to view
	k smallest nums in M sorted list	https://leetcode.com/problems/kth-smallest-element-in-a-sorted-matrix/	Best Tutorial link - click to view	Article link-click to view
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Iwo neaps pattern		http://www.actiofaccological.com/action/acti		
	Find median from data stream	https://www.geeksforgeeks.org/problems/find-median-in-a-stream-1587115 620/1?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	
		https://leetcode.com/problems/signing-window-median/		
	Maximum capital/IPO	https://leetcode.com/problems/ipo/	Best Tutorial link - click to view	Article link-click to view
Minimum number pattern				
	No.	https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes-15871		Autologische Gestellung der Gestellu
	Minimum cost to connect ropes	15620/1	Best Tutorial link - click to view	
	Meeting room II	https://leetcode.com/problems/meeting-rooms-ii	Best Tutorial link - click to view	
	Minimum cost to hire k workers	https://leetcode.com/problems/minimum-cost-to-hire-k-workers/	Best Tutorial link - click to view	
	Minimum num of CPU	https://leetcode.com/problems/task-scheduler/	Best Tutorial link - click to view	
	Minimum num of refueling stops	https://leetcode.com/problems/minimum-number-of-refueling-stops/	Best Tutorial link - click to view	Article link-click to view
Trie - Data structure				
Basic and must solve				
Duois and must solve	Implement Trie from scratch	https://www.codingnining.com/studio/orchlome/impleme=t-t-i	Best Tutorial link - click to view	Article link eliek to view
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		https://www.geeksforgeeks.org/problems/word-break-trie141631/1?itm_s ource=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky		
	Word break (Do solve it using trie, though you had solved this already)	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	
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		https://www.geeksforgeeks.org/problems/maximum-xor-of-two-numbers-in- an-array/1?itm_source=geeksforgeeks&itm_medium=Article&itm_campaig		
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		?itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom		
	Unique rows in boolean matrix	_sticky_on_Article	Best Tutorial link - click to view	
	Prefix match with other strings	https://www.geeksforgeeks.org/problems/prefix-match-with-other-strings/1		
	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			
String				
Must solve and Algos specific to strip				
	Implement Atoi	https://www.geeksforgeeks.org/problems/implement-atoi/1	Best Tutorial link - click to view	Article link-click to view
	Count and say	https://leetcode.com/problems/count-and-say/	Best Tutorial link - click to view	
		https://www.geeksforgeeks.org/problems/count-the-reversals0401/1?itm_s	January and the view	
		ource=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky		
	Minimum bracket reversals	on Article	Best Tutorial link - click to view	Article link-click to view

	Rabin karp algo( Pattern searching, super imp, this was infact asked in one of my interview)	https://practice.geeksforgeeks.org/problems/search-pattern-rabin-karp-alg- orithm141631/1	Best Tutorial link - click to view	Article link-click to view		
	Boyer moor algo (Pattern searching)	https://www.codingninjas.com/studio/problems/boyer-moore-algorithm-for-pattern-searching_1115634	Best Tutorial link - click to view	Article link-click to view		
	KMP algo ( Longest prefix suffix, super imp)	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix2527/1	Best Tutorial link - click to view	Article link-click to view		
	Longest happy prefix	https://www.geeksforgeeks.org/longest-prefix-also-suffix/	Best Tutorial link - click to view	Article link-click to view		
	Remove all adjacent duplicates	https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/	Best Tutorial link - click to view	Article link-click to view		
	Hashing in strings	https://www.geeksforgeeks.org/practice-problems-on-hashing/	Best Tutorial link - click to view	Article link-click to view		
	Print all anagrams	https://leetcode.com/problems/group-anagrams/	Best Tutorial link - click to view	Article link-click to view		
	Z - Function	https://practice.geeksforgeeks.org/problems/search-pattern-z-algorithm1 41631/1	Best Tutorial link - click to view	Article link-click to view		
	Shortest palindrome	Shortest Palindrome - LeetCode	Best Tutorial link - click to view	Article link-click to view		
	Circle of strings	https://www.geeksforgeeks.org/problems/circle-of-strings4530/1	Best Tutorial link - click to view	Article link-click to view		
	Roman numerals to decimals	https://www.geeksforgeeks.org/problems/roman-number-to-integer3201/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view		
There are couple of more topics, bit man	ipulation, segment trees and AVL trees which has limited number of probs, so do check the	at out if you have good amount of time still left				
	ode.com/discuss/general-discussion/1073221/All-about-Bitwise-Operations-Beginner-Intern					
Leetcode Article for behavioural rounds	https://leetcode.com/discuss/interview-experience/1532708/tips-for-answering-fev	w-tricky-behavioural-interview-questions		,		
Leetcode Article for major patterns	https://leetcode.com/discuss/general-discussion/665604/Important-and-Useful-lin	ks-from-all-over-the-LeetCode				
Resume standard template	https://www.overleaf.com/Articles/ravi-kukretis-resume/cxprrkxbccgb					
True to polyce offeest Et mychleme	s per day to master it at the earliest					-