Curious freaks CODING SHEET by Nandhini

Checkout this video to understand efficient way to use this sheet - https://youtu.be/ALpP5ZFokjQ

ENROLLMENT OPENING TODAY FOR OUR PLACEMENT'S COURSE - https://curiousfreakss.com/

Youtube Channel - https://www.youtube.com/@curiousfreaks_

Lets use #CFCodingSheet tag to share with friends on social media - https://www.instagram.com/its_me_nandyy

Connect with me on LinkedIn - https://www.linkedin.com/in/nandhini-raja-8b71b4143/

Only sheet you need to get placed in super high paying companies including google, amazon, salesforce, microsoft, adobe, etc

Solving time - 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.

TOPIC	Problem	Problem link	Solution Tutorial	Solution Article	Solved	Notes
Basics						
eginners basic math probs						
	Find even or odd	https://practice.geeksforgeeks.org/problems/odd-or-even3618/1	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/find-last-digit-of-ab-for-large-				
		numbers1936/1	Best Tutorial link - click to view	Article link-click to view		
		https://practice.geeksforgeeks.org/problems/count-digits5716/1	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/reverse-digit0316/1				
		https://www.geeksforgeeks.org/problems/power-of-numbers-1587115620/1	Best Tutorial link - click to view			
		https://practice.geeksforgeeks.org/problems/gcd-of-two-numbers3459/1	Best Tutorial link - click to view	Article link-click to view		
	Print all divisors of a number	https://www.codingninjas.com/studio/problems/print-all-divisors-of-a- number 1164188	Best Tutorial link - click to view	Article link-click to view		
		https://practice.geeksforgeeks.org/problems/prime-number2314/1	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/armstrong-numbers2727/1	Best Tutorial link - click to view	Article link-click to view		
	Check palindrome of number(Use the techniques you learnt so far solving above probs and solve	https://practice.geeksforgeeks.org/problems/palindrome0746/1	Don't Total and Hall all all to class	Article link-click to view		
			Best Tutorial link - click to view			
		https://www.geeksforgeeks.org/problems/square-root/1	Best Tutorial link - click to view	Article link-click to view		
		https://practice.geeksforgeeks.org/problems/perfect-numbers3207/1	Best Tutorial link - click to view	Article link-click to view		
	This is a huge topic and array acts as base data structure for many concepts, so lets master the basics in this section. For all the data struture moving forward, make sure to visually					
Array - Data structure	note down and understand how it is represented					
Basics with traversal						
	What is an array? How is it represented?		Best Tutorial link - click to view	Article link-click to view		
	Find the maximum and minimum element in array(After solving the search , you can solve all probs in this basics by yourself)	https://www.geeksforgeeks.org/problems/find-minimum-and-maximum- element-in-an-array4428/1	Best Tutorial link - click to view	Article link-click to view		
	Find third largest element in array	https://practice.geeksforgeeks.org/problems/third-largest-element/1	Best Tutorial link - click to view	Article link-click to view		
	Search an element in array(Understand how to traverse through the array and how to access the elements)	https://www.geeksforgeeks.org/problems/search-an-element-in-an-array- 1587115621/1	Best Tutorial link - click to view	Article link-click to view		
		https://practice.geeksforgeeks.org/problems/missing-number-in-array1416/1		Article link-click to view		
	Find repeating number in array	https://practice.geekslorgeeks.org/problems/missing-number-in-array 14 10/1	Best Tutorial link - click to view	Atticle link-click to view		
		https://www.geeksforgeeks.org/problems/sort-an-array-of-0s-1s-and-	Best Tutorial IIIIk - Click to view			
		2s4231/1?				
		itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_stickv_on_Article	Best Tutorial link - click to view	Article link-click to view		
	•	https://www.geeksforgeeks.org/problems/check-if-two-arrays-are-equal-or-				
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		https://www.codingninjas.com/studio/problems/rotate-array 1230543	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/array-subset-of-another-	Dest I dional link - Click to view	Alticle lilik-click to view		
	Array subset of another array	array2317/1	Best Tutorial link - click to view	Article link-click to view		
	Learn what is map and how its represented before moving forward		Best Tutorial link - click to view	Article link-click to view		
	· · · · · · · · · · · · · · · · · · ·	https://practice.geeksforgeeks.org/problems/frequency-of-array-elements-				
	Count frequency of elements in array(Solve efficiently, try applying what you learnt about map)	1587115620/1	Best Tutorial link - click to view	Article link-click to view		
Two pointer(This is very imp pattern, not just for these probs but very commonly you can use this technique)	Just like search, sort, this is also imp technique to learn					
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	Find pair with given sum	cky on Article	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/triplet-sum-in-array- 1587115621/12				
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		cky_on_Article	Best Tutorial link - click to view	Article link-click to view		
		https://leetcode.com/problems/4sum/	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/find-triplets-with-zero-sum/1	Best Tutorial link - click to view	Article link-click to view		
	Find count of triplets Union of two arrays(Learn the brute force & optimal soln, you will learn about set datastructure,	Count the triplets Practice GeeksforGeeks	Best Tutorial link - click to view	Article link-click to view		
		https://www.geeksforgeeks.org/problems/union-of-two-arrays3538/1	Best Tutorial link - click to view	Article link-click to view		
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	Remove occurence of duplicates in sorted & unsorted LL	page=1&category=Linked%20List&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view		
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	Seggregate even and odd nodes in LL	nodes-in-a-linked-list5035/1	Best Tutorial link - click to view	Article link-click to view		
Arithmetic(Reversal & traversal - Once						
you learnt these, you can solve probs in this pattern)						
uno pattorny		https://practice.geeksforgeeks.org/problems/add-1-to-a-number-				
	Add 1 to a number represented as LL	represented-as-linked-list/1	Best Tutorial link - click to view	Article link-click to view		
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		https://www.geeksforgeeks.org/problems/subtraction-in-linked-list/12 page=1&category=Linked%20List&difficulty=Hard&sortBy=submissions				
	Subtraction on LL(Comes under hard but should be solvable once the above ones are solved)	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)						
		https://www.geeksforgeeks.org/problems/reorder-list/1?				
	Rotate LL	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	Best Tutorial link - click to view	Article link-click to view		
	Delete nodes having greater value on right	https://practice.geeksforgeeks.org/problems/delete-nodes-having-greater- value-on-right/1	Best Tutorial link - click to view	Article link eliek to view		
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	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		
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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? page=1&category=doubly-linked-list&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view		
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Stack - Data structure						
Basic						
		https://www.geeksforgeeks.org/problems/implement-stack-using-array/12				
	What is stack? Leam how to represent the data structure and working of it	https://www.geeksforgeeks.org/problems/implement-stack-using-array/1? page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view		
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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 Arithmetic expression evaluation Insert at bottom of stack Reverse a stack	page=1&category=Stack&sortBy=submissions https://www.gesetsforgeeks.org/problems/implement-two-stacks-in-an- array/17page=1&category=Stack&sortBy=submissions https://www.gesetsforgeeks.org/problems/implement-two-stacks-in-an- array/17page=1&category=Stack&sortBy=submissions https://www.gesetsforgeeks.org/problems/inget-minimum-element-from- stack/17page=1&category=Stack&sortBy=submissions https://www.gesetsforgeeks.org/problems/inext-larger-element- 15871156201/17page=1&category=Stack&sortBy=submissions https://executes.org/problems/inext-larger-element- 15871156201/17page=1&category=Stack&sortBy=submissions https://executes.org/problems/inext-greater-element-lik/ https://executes.org/problems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.cocinorpoblems/inext-greater-element-lik/ https://www.geseksforgeeks.org/problems/inext-smaller- glement-lit/2881 https://www.geseksforgeeks.org/problems/inpulpin-grain-water- 188711562117page=1&category-Stack&sortBy-submissions https://www.geseksforgeeks.org/problems/inaxt-pagealpalpin-pablitom_states- https://www.geseksforgeeks.org/problems/infaxt-p-postfaxt-5871156201/ page=1&category-Stack&sortBy-submissions https://www.geseksforgeeks.org/problems/infaxt-p-postfaxt-5871156201/ https://www.geseksforgeeks.org/problems/infaxt-p-postfaxt-5871156201/ https://www.geseksforgeeks.org/problems/infaxt-p-postfaxt-5871156201/ https://www.geseksforgeeks.org/problems/infaxt-p-postfaxt-5871156201/ https://www.geseksforgeeks.org/problems/infaxt-p-postfaxt-5871156201/ https://www.geseksforgeeks.org/problems/infaxt-p-postfaxt-5871156201/ https://www.geseksforgeeks.org/probl	Best Tutorial link - click to view	Article link-click to view		
Next smallest element(Once above pattern is covered, try to solve this on own) Expressions Reversing stack	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 Arithmetic expression evaluation Insert at bottom of stack Reverse a stack	page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/interbesis-chacks-in-an- array/17-page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/array/17-page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/aret-lement-from- stack/17-page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/next-larger-element- 1587/1158201/7-page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/next-larger-element- 1587/1158201/7-page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/next-greater-element-ii/ https://www.geeksforgeeks.org/problems/next-greater-element-ii/ https://www.geeksforgeeks.org/problems/next-smaller- element_1112881 https://www.geeksforgeeks.org/problems/next-smaller- element_1112881 https://www.geeksforgeeks.org/problems/next-smaller- element_1112881 https://www.geeksforgeeks.org/problems/next-smaller- element_1112881 https://www.geeksforgeeks.org/problems/facydes-pan-problem- 1587/15821/17 https://www.geeksforgeeks.org/problems/facydes-pan-problem- 1587/15821/17 https://www.geeksforgeeks.org/problems/maximum-rectangular-area-in-a- histogram-1587/15821/17 page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/naximum-rectangular-area-in-a- histogram-1587/15620/17 page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/naximum-rectangular-area-in-a- histogram-1587/15620/17 page=18.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/nfink-to-postfix-1587/115620/17 page=28.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/nfink-to-postfix-1587/115620/17 page=28.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/nfink-to-postfix-1587/115620/17 page=28.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/nfink-to-postfix-1587/115620/17 page=28.category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/nfink-	Best Tutorial link - click to view	Article link-click to view		

		https://www.geeksforgeeks.org/problems/restrictive-candy-crush141631/1?			
	Restrictive candy crush	page=2&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Count the reversals	https://www.geeksforgeeks.org/problems/count-the-reversals0401/12 page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Queue - Data structure					
Basic pattern					
	What is queue? Learn the basic representation and how its implemented?	https://www.geeksforgeeks.org/problems/implement-queue-using-array/12 page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Implement queue using linkedlist	https://www.geeksforgeeks.org/problems/implement-queue-using-linked- list/1?page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Implement queue using stack(super imp)	https://www.geeksforgeeks.org/problems/queue-using-two-stacks/12 page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Implement stack using queue(super imp)	https://www.geeksforgeeks.org/problems/stack-using-two-queues/1? page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Reverse a queue	https://www.geeksforgeeks.org/problems/queue-reversal/1? page=1&category=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-1587115620/12 page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	First non repeating char in stream	https://www.geeksforgeeks.org/problems/first-non-repeating-character-in-a- stream1216/1?page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Reverse first k elements in queue	https://www.geeksforgeeks.org/problems/reverse-first-k-elements-of- queue/1?page=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=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimum cost of ropes	https://www.geeksforgeeks.org/problems/minimum-cost-of-ropes- 1587115620/1?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-1587115620/12 page=3&category=Arrays&difficulty=Medium	Best Tutorial link - click to view	Article link-click to view	
Sliding Window - Technique		https://leetcode.com/problems/find-all-anagrams-in-a-			
(Dont skip this topic, I personally have been asked this topic in many interviews	GeekForGeeks has very limited probs in this topics, so use leetcode for this even if you practice on gfg generally	string/solutions/92007/sliding-window-algorithm-template-to-solve-all-the- leetcode-substring-search-problem/			
Fixed Sliding Window(Size of the window will be provided)					
window will be provided)		https://www.geeksforgeeks.org/problems/max-sum-subarray-of-size-			
	Maximum sum subarray of size k	k5313/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Maximium sum subarray of size is Count distinct element in every window(Once you understoor handling window size fixed from above orob, this will be easy)	https://www.geeksforgeeks.org/problems/count-distinct-elements-in-every- window/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view		
	, , , , , , , , , , , , , , , , , , , ,	https://www.geeksforgeeks.org/problems/first-negative-integer-in-every-	Dest Futorial link - Click to view	Article IIIIX-CIICK TO VIEW	
	First negative integer in every window of size k(Try to solve on own before looking for soln since you did above topics too already	window-of-size-k3345/1?page=1&category=sliding- window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum of all subarray of size k(Try to solve on own)	https://www.geeksforgeeks.org/problems/maximum-of-all-subarrays-of-size-k3101/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Count substring of length k with k-1 distinct elements	https://www.geeksforgeeks.org/problems/substrings-of-length-k-with-k-1-distinct-elements/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum of minimum for every window(Imp)	https://www.geeksforgeeks.org/problems/maximum-of-minimum-for-every-window-size3453/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Variable sliding window(Each prob will teach something in addition to the window so do					
solve everything)	Subarray with given sum	https://www.geeksforgeeks.org/problems/subarray-with-given-sum- 1587115621/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Added that will be about	
		https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-			
	Longest subarray with given sum k(Same as above with slight modification)	k0809/1?page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/subarray-with-0-sum-	Best Tutorial link - click to view		
	Subarray with 0 sum	1587115621/1?page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/smallest-distant-window3132/12	Best Tutorial link - click to view		
	Smallest window of distinct elements	page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/smallest-window-containing-0-1-	Best Tutorial link - click to view		
	Smallest window containing 0,1,2	and-2-170637/1?page=2&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/smallest-window-in-a-string-	Best Tutorial link - click to view	Article link-click to view	
	Smallest window in string containing all chars of another string	containing-all-the-characters-of-another-string-1587115621/1? page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Length of longest substring	https://www.geeksforgeeks.org/problems/length-of-the-longest- substring3036/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Largest subarray of 0s and 1s	https://www.geeksforgeeks.org/problems/largest-subarray-of-0s-and-1s/12 page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Count of anagram occurence(Super imp)	https://www.geeksforgeeks.org/problems/count-occurences-of- anagrams5839/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Max consecutive ones III	https://leetcode.com/problems/max-consecutive-ones-iii/	Best Tutorial link - click to view		
	Fruit into basket	https://leetcode.com/problems/fruit-into-baskets	Best Tutorial link - click to view	Article link-click to view	
	Count number of nice subarrays	https://leetcode.com/problems/count-number-of-nice-subarrays/	Best Tutorial link - click to view	Article link-click to view	
	Longest repeating char replacement Minimum window substring	https://leetcode.com/problems/longest-repeating-character-replacement	Best Tutorial link - click to view Best Tutorial link - click to view	Add to the total to the total	
	Minimum window substring Minimum window subsequence(Understand the diff between subarray and subsequence before	https://leetcode.com/problems/minimum-window-substring/description/			
	starting this prob)	https://leetcode.com/problems/minimum-window-subsequence/	Best Tutorial link - click to view		
Trees - Data structure	Subarray with k diff integers	https://leetcode.com/problems/subarrays-with-k-different-integers/	Best Tutorial link - click to view	Article link-click to view	
	Understand the basic of how tree data structure is represented		Best Tutorial link - click to view		
	Ornerstand the basic of now nee data structure is represented PreOrder Traversal	https://www.geeksforgeeks.org/problems/preorder-traversal/1? page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/inorder-traversal/1?			
	InOrder Traversal	page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/postorder-traversal/1?	Best Tutorial link - click to view		
	PostOrder Traversal	page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/level-order-traversal/1?	Best Tutorial link - click to view		
	Level Order Traversal	page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/boundary-traversal-of-binary-	Best Tutorial link - click to view		
	Boundary Traversal (Once level traversal is learnt, this you can solve)	tree/1?page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	

		https://www.geeksforgeeks.org/problems/print-a-binary-tree-in-vertical-			
	Vertical Traversal(Once level traversal is learnt, this you can solve, lil extra logic is needed)	order/1?page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Top View of BT(Once you have mastered level traversal, this should be easy)	https://www.geeksforgeeks.org/problems/top-view-of-binary-tree/12 page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Bottom View of BT(Once you have mastered level traversal, this should be easy)	https://www.geeksforgeeks.org/problems/bottom-view-of-binary-tree/12 page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Left View of BT(Once you have mastered vertical traversal, this should be easy)	https://www.geeksforgeeks.org/problems/left-view-of-binary-tree/12 page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Right View of BT(Once you have mastered vertical traversal, this should be easy)	https://www.geeksforgeeks.org/problems/right-view-of-binary-tree/1? page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Diagonal Traversal	https://www.geeksforgeeks.org/problems/diagonal-traversal-of-binary- tree/1?page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Basic and Easy patterns(Try to solve these once you learnt traversals)	Diagonal Haversan	rear repage - strategory - readastroy - admissions	Dest ratorial link - click to view	AIRGE IIIIA-CIICA TO VIEW	
tnese once you learnt traversals)	Insert node in a tree		Best 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&category=Tree&sortBv=submissions	Best Tutorial link - click to view	Article link-click to view	
	Diameter of the tree	https://www.geeksforgeeks.org/problems/diameter-of-binary-tree/1? page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Check if 2 trees are identical	https://www.geeksforgeeks.org/problems/determine-if-two-trees-are-identical/1?page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Check if subtree	https://www.geeksforgeeks.org/problems/check-if-subtree/1? page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/check-for-balanced-tree/1?			
	Check for balanced tree	page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/lowest-common-ancestor-in-a-	Best Tutorial link - click to view		
	Lowest common Ancestor in BT	binary-tree/1?page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/sum-tree/12	Best Tutorial link - click to view	Article link-click to view	
	Sum tree	page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/symmetric-tree/1?	Best Tutorial link - click to view	Article link-click to view	
	Symmetric tree	page=2&category=Tree&sortBy=submissions	Best 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	Best Tutorial link - click to view	Article link-click to view	
	Check if isomorphic	https://www.geeksforgeeks.org/problems/check-if-tree-is-isomorphic/1? page=2&category=Tree&sortBv=submissions	Best Tutorial link - click to view	Article link-click to view	
Path and Distance		https://www.geeksforgeeks.org/problems/root-to-leaf-paths/1?			
	Root to leaf paths	page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Root to leaf path sum (Once the root to leaf path is solved, this should be easy)	https://www.geeksforgeeks.org/problems/root-to-leaf-paths/1? page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum path sum from any node(Once the root to leaf path is solved, this should be easy)	https://www.geeksforgeeks.org/problems/maximum-path-sum-from-any- node/1?page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	K Sum Paths (Once the root to leaf path is solved, this should be easy)	https://www.geeksforgeeks.org/problems/k-sum-paths/1? page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Nodes at given distance	https://www.geeksforgeeks.org/problems/nodes-at-given-distance-in-binary-tree/1?page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Range sum of BST(Solving nodes at given distance, will make this easy)		Best 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/12page=2&category=Tree&sortBy=submissions	Best 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- node-and-its-ancestor/12page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/burning-tree/1?	Best Tutorial link - click to view	Article link-click to view	
Blazza Carack Transforms than it	Min time to burn a tree(Using distance logic, this can be sovled)	page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view	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	https://leetcode.com/problems/insert-into-a-binary-search-tree/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	Search a value in BST (Learn efficient algo to do it, since this can be handled efficiently in BST than BT)	https://practice.geeksforgeeks.org/problems/search-a-node-in-bst/1	Best Tutorial link - click to view		
	Find minimum and maximum in BST	https://practice.geessiorgeess.org/problems/max-and-min-element-in-binary- tree/12page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Find the Kth largest element/kth Smallest in BST(Try to solve it without looking for soln, once you have mastered all the above patterns, this should be easy)	https://www.geeksforgeeks.org/problems/kth-largest-element-in-bst/1?	Best Tutorial link - click to view		
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/check-for-bst/1?			
	Check for BST(Try solving probs in this pattern by yourself till LCA once above are solved)	page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/find-the-closest-element-in-bst/1?	Best Tutorial link - click to view	Article link-click to view	
	Find the closest element in BST	page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/count-bst-nodes-that-lie-in-a-given-	Best Tutorial link - click to view	Article link-click to view	
	Count BST nodes in the given range	range/1?page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/largest-bst/12	Best Tutorial link - click to view	Article link-click to view	
	Largest BST in BT(Super imp - Must solve)	page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/lowest-common-ancestor-in-a-	Best Tutorial link - click to view		
	Lowest Common Ancestor in BST	bst/1?page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/merge-two-bst-s/12	Best Tutorial link - click to view	Article link-click to view	
	Merge two BST(Super imp - Must solve)	page=4&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/predecessor-and-successor/1?		Article link-click to view	
	Inorder successor and predecessor	page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/populate-inorder-successor-for-all-	Best Tutorial link - click to view	Article link-click to view	
	Populate inorder successor for all nodes	nodes/1?page=5&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/bst-to-greater-sum-tree/12	Best Tutorial link - click to view	Article link-click to vieww	
	BST to greater sum tree	page=8&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
Construct from given	Delete given node from BST	https://leetcode.com/problems/delete-node-in-a-bst/	Best Tutorial link - click to view	Article link-click to view	
	Construct 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&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Construct Binary Tree from Inorder and Postorder Traversal	https://leetcode.com/problems/construct-binary-tree-from-inorder-and-postorder-traversal/	Best Tutorial link - click to view		
	Construct BST from given preorder traversal	https://www.geeksforgeeks.org/problems/construct-tree-from-preorder- traversal/1?page=7&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
		page / acategory medicalontay-administrate	CILCULA III.N - CIICK TO VIEW	- 1111 ANN CHOICE TO THOSE	

		https://www.applesformable.org/problems/construct binary tree from parent			
	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		https://www.geeksforgeeks.org/problems/serialize-and-deserialize-a-binary-			
	Serialize and deserialize BT	tree/1?page=4&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Largest subtree sum in a tree	https://www.geeksforgeeks.org/problems/largest-subtree-sum-in-a-tree/12 page=6&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum sum of non adjacent nodes	https://www.geeksforgeeks.org/problems/maximum-sum-of-non-adjacent- nodes/1?page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Duplicate subtree	https://www.geeksforgeeks.org/problems/duplicate-subtrees/1? page=48category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Flatten BT to linked list	https://www.geeksforgeeks.org/problems/flatten-binary-tree-to-linked-list/12 page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://leetcode.com/discuss/general-discussion/680269/a- general-approach-to-backtracking-problems-in-cexhaustive-			
Backtracking & Recursion advanced - Technique	This is super imp topic before moving further!! Draw the recursion tree to understand the flow as the first step, this will help in visualization of the flow	general-approach-to-backtracking-problems-in-cexhaustive- searching			
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				
	Permutations of a string	https://www.geeksforgeeks.org/problems/permutations-of-a-given- string2041/1?page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Permutation II (You can solve on own once you solve above)	https://leetcode.com/problems/permutations-ii	Best Tutorial link - click to view		
	Combination sum I Combination sum II(Once you solve combination I, you should be able to solve this and below 2	https://www.geeksforgeeks.org/problems/combination-sum-1587115620/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	probs too easily)	https://leetcode.com/problems/combination-sum-ii			
	Combination sum III	https://leetcode.com/problems/combination-sum-iii https://www.geeksforgeeks.org/problems/rat-in-a-maze-problem/12	Best Tutorial link - click to view	Article link-click to view	
	Rat in maze(Once above probs are solved, you can do this easily)	https://www.geeksforgeeks.org/problems/possible-words-from-phone-digits-	Best Tutorial link - click to view	Article link-click to view	
	Possible words from phone digits	1587115620/1?page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Subsets	https://www.geeksforgeeks.org/problems/subsets-1613027340/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Unique subset(Solving above, you will be able to solve this easily)	https://www.geeksforgeeks.org/problems/subsets-1587115621/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	N-Queen(Super imp)	https://www.geeksforgeeks.org/problems/n-queen-problem0315/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	N Queen II	https://leetcode.com/problems/n-queens-ii			
	Permutation with spaces	https://www.geeksforgeeks.org/problems/permutation-with-spaces3627/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Generate parantheses	https://www.geeksforgeeks.org/problems/generate-all-possible- parentheses/1?page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Generate IP address	https://www.geeksforgeeks.org/problems/generate-ip-addresses/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Solve the sudoku	https://www.geeksforgeeks.org/problems/solve-the-sudoku-1587115621/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	kth permutation	https://www.geeksforgeeks.org/problems/find-kth-permutation/12 page=2&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Word search	https://www.geeksforgeeks.org/problems/word-search/12 page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Palindrome partition of string	https://www.geeksforgeeks.org/problems/find-all-possible-palindromic- partitions-of-a-string/1? page=2&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
	Decode the string	https://www.geeksforgeeks.org/problems/decode-the-string2444/1?			
	Letter case permutation	page=1&category=Backtracking&sortBy=submissions https://leetcode.com/problems/letter-case-permutation/	Best Tutorial link - click to view Best Tutorial link - click to view		
	sum string	https://www.geeksforgeeks.org/problems/sum-string3151/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/word-boggle4143/1?			
	word boggle	page=1&category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/largest-number-in-k-swaps-	Best Tutorial link - click to view		
	Largest number in k swaps	1587115620/1?page=1&category=Backtracking&sortBy=submissions https://www.geeksforgeeks.org/problems/partition-array-to-k-subsets/12	Best Tutorial link - click to view		
	Partition array to k subsets Most of the probs in this topics can be solved once you learn first couple of probs in each pattern of	page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Graphs - Data structure	this topics	beginners-problems-pattern-sample-solutions/			
Traversals & Basic	Understand how graph is represented?	https://www.geeksforgeeks.org/problems/bfs-traversal-of-graph/1?	Best Tutorial link - click to view		
	BFS Traversal(Super imp and basic)	page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/depth-first-traversal-for-a-graph/12	Best Tutorial link - click to view		
	DFS Traversal(Super imp and basic)	page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/detect-cycle-in-a-directed-graph/12	Best Tutorial link - click to view		
	Detect cycle in Directed graph	page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/detect-cycle-in-an-undirected-	Best Tutorial link - click to view	Article link-click to view	
	Detect cycle in Undirected graph	graph/1?page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/negative-weight-cycle3504/1?	Best Tutorial link - click to view	Article link-click to view	
Connected component/After traversal.	Detect Negative cycle in graph	page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
this will be easy to solve)					
	Connected component(Once you master this , all the below using this pattern will become super easy)	https://practice.geeksforgeeks.org/problems/strongly-connected-component-tarjanss-algo-1587115621/1	Best Tutorial link - click to view	Article link-click to view	
	Number of Provinces(Learn how to solve this prob and solve the below in this pattern)	https://www.geeksforgeeks.org/problems/number-of-provinces/1? page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Number of Islands	https://www.geeksforgeeks.org/problems/find-the-number-of-islands/1? page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Number of distinct island	https://www.geeksforgeeks.org/problems/number-of-distinct-islands/1? page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Number of closed island	https://www.geeksforgeeks.org/problems/find-number-of-closed-islands/1?			
	Number of closed Island	page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	

Bipartite					
Diputito		https://www.geeksforgeeks.org/problems/bipartite-graph/1?			
	Bipartite graph	page=1&category=Graph&sortBy=submissions https://practice.geeksforgeeks.org/problems/m-coloring-problem-	Best Tutorial link - click to view	Article link-click to view	
	M-colouring	<u>1587115620/1</u>	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- unweighted-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- graph/1?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Djikstra Algo	https://www.geeksforgeeks.org/problems/implementing-dijkstra-set-1- adjacency-matrix/1?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Step by Knight	https://www.geeksforgeeks.org/problems/steps-by-knight5927/12 page=1&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-	Best Tutorial link - click to view	Article link-click to view	
	,	path3544/1?page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/find-whether-path-exist5238/1?			
	Find if path exists	page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/covid-spread141631/1?	Best Tutorial link - click to view	Article link-click to view	
	Covid spread	page=4&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/minimum-cost-path3833/12	Best Tutorial link - click to view	Article link-click to view	
	Minimum cost path	page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/word-ladder/1?	Best Tutorial link - click to view	Article link-click to view	
	Word ladder I	page=3&category=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&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Floyd warshal algo	https://www.geeksforgeeks.org/problems/implementing-floyd- warshall2042/1?page=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-bellman- ford-algorithm/1?page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Multi Source					
	Flood fill	https://www.geeksforgeeks.org/problems/flood-fill-algorithm1856/12 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-xs0052/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Unit area of largest region of 1s	https://www.geeksforgeeks.org/problems/length-of-largest-region-of-1s- 1587115620/17page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/rotten-oranges2536/1?			
Topological sort	Rotten Oranges	page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Topological sort algo(Learning this algo, will make you solve all the probs in this pattern)	https://www.geeksforgeeks.org/problems/topological-sort/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Prerequisite tasks	https://www.geeksforgeeks.org/problems/prerequisite-tasks/1? page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/course-schedule/1?			
	Course schedule I Course schedule II	page=3&category=Graph&sortBy=submissions https://leetcode.com/problems/course-schedule-ii	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Eventual safe states	https://www.geeksforgeeks.org/problems/eventual-safe-states/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/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Minimum Spanning Tree			STATE OF THE STATE		
	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/12 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 6320	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	Article link-click to view	
	Minimum cost to connect all points	https://leetcode.com/problems/min-cost-to-connect-all-points/	Best Tutorial link - click to view	Article link-click to view	
Disjoint set	Optimize water distribution	https://leetcode.com/problems/optimize-water-distribution-in-a-village	Best Tutorial link - click to view	Article link-click to view	
	Learn the disjoint set Algo		Best Tutorial link - click to view	Article link-click to view	
	Union by rank, path compression(Super imp, dont skip)		Best Tutorial link - click to view	Article link-click to view	
	Networks connected	https://leetcode.com/problems/number-of-operations-to-make-network-connected/	Best Tutorial link - click to view	Article link-click to view	
	Minimum swaps to sort	https://www.geeksforgeeks.org/problems/minimum-swaps/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Santa Banta	https://www.geeksforgeeks.org/problems/santa-banta2814/12 page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Number of pairs	https://www.geeksforgeeks.org/problems/number-of-pairs-1645358985/1? page=5&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Number of Island II	https://leetcode.com/problems/number-of-islands-ii/	Best Tutorial link - click to view		
	Making a large island	https://leetcode.com/problems/making-a-large-island	Best Tutorial link - click to view	Article link-click to view	
Must solve imp algos		https://www.geeksforgeeks.org/problems/bridge-edge-in-graph/1?			
	Bridges in graph	page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Articulation point	https://www.geeksforgeeks.org/problems/articulation-point-1/1? page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Critical connection	https://www.geeksforgeeks.org/problems/critical-connections/1? page=5&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Kosaraia algo (Strongly connected component algo)	https://www.geeksforgeeks.org/problems/strongly-connected-components- kosaraius-algo/1?page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Word boggle	https://www.geeksforgeeks.org/problems/word-boggle4143/1?	Best Tutorial link - click to view	Article link-click to view	
	Word boggle II	https://www.geeksforgeeks.org/problems/word-boggle-ii-141631/12	Best Tutorial link - click to view	Article link-click to view	
Greedy - Technique					
Basics and must solves		https://www.geeksforgeeks.org/problems/minimum-number-of-jumps-			
	Minimum number of jumps	1587115620/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimum operations	https://www.geeksforgeeks.org/problems/find-optimum-operation4504/12 page=1&category=Greedy&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- product1525/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/largest-number-possible5028/1?			
	Largest number possible	page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Lemonade change	https://www.geeksforgeeks.org/problems/lemonade-change/12 page=2&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Activity selection prob(Super imp)	https://www.geeksforgeeks.org/problems/activity-selection-1587115620/1? page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/n-meetings-in-one-room-			
	N meetings in a room(Super imp)	1587115620/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimum platforms	https://www.geeksforgeeks.org/problems/minimum-platforms- 1587115620/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/minimize-the-heights-i/1?			
	Minimize the height Minimum number of coins using greedy(This can be solved using naive, DP also but make sure to	page=2&category=Greedy&sortBy=submissions https://www.geeksforgeeks.org/problems/.minimum.number.of.coins4428/12	Best Tutorial link - click to view	Article link-click to view	
	use greedy here)	https://www.geeksforgeeks.org/problems/-minimum-number-of-coins4426/12 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- 1587115620/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/fractional-knapsack-			
	Fractional knapsack	1587115620/1?page=1&category=Greedy&sortBy=submissions https://www.geeksforgeeks.org/problems/jump-game/12	Best Tutorial link - click to view	Article link-click to view	
	Jump game	page=2&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Insert interval	https://leetcode.com/problems/insert-interval/	Best Tutorial link - click to view		
	Merge interval	https://leetcode.com/problems/merge-intervals/	Best Tutorial link - click to view		
	Non overlapping interval	https://leetcode.com/problems/non-overlapping-intervals/ https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes-	Best Tutorial link - click to view		
	Minimum cost of ropes	1587115620/1			
	Partition labels Cinema seat allocation	https://leetcode.com/problems/partition-labels/ https://leetcode.com/problems/cinema-seat-allocation/	Best Tutorial link - click to view Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/max-length-chain/1?			
	Max length chain	page=1&category=Greedy&sortBy=submissions		Article link-click to view	
	Valid parantheses - Minimum Shortest job first	https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/ https://practice.geeksforgeeks.org/problems/shortest-job-first/1	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	Onortoes journal	https://practice.geeksforgeeks.org/problems/lru-cache/1?	Dear Tutorial IIIIK - CIICK to VIEW	ALUGIO III IK-CIICK TO VIEW	
	Least recently used	utm_source=youtube&utm_medium=collab_fraz_websitelink&utm_campaigr=LRU+Cache	Best Tutorial link - click to view	Article link-click to view	
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Dynamic Programming -	DP is super crucial topic and very commonly asked in many interviews!! One major thing you need to know is, dont start with tabulation approach directly, thats wrong way to leam DP. First find the solution using recursion, then memoization and then finally tabulation and space reduction in	https://leetcode.com/discuss/general-discussion/662866/dp-for-beginners-			
Technique	tabulation.	problems-patterns-sample-solutions			
Basic	Understand the basics!!		B . T		
1D - Linear DP	Understand the basics!!		Best Tutorial link - click to view	Article link-click to view	
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	Longest bitonic subsequence(Solve on own, definitely you can do it once the above two are solved)	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	https://leetcode.com/problems/largest-divisible-subset/	Best Tutorial link - click to view	Added the total to the control of th	
		https://leetcode.com/problems/longest-string-chain/	Best Tutorial link - click to view		
		https://leetcode.com/problems/number-of-longest-increasing-subsequence/			
DP on strings(Using Longest common					
subsequence pattern)		https://www.geeksforgeeks.org/problems/longest-common-subsequence-			
	Longest common subsequence(Once you learn this pattern, all probs under this pattern can be	1587115620/1?page=1&category=Dynamic%			
	solved by yourself)	20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/print-all-lcs-sequences3413/12	Best Tutorial link - click to view	Article link-click to view	
	Print Longest common subsequence(Here you will need to print the string so must solve)	https://www.geekstorgeeks.org/problems/print-ail-ics-sequences3413/12 page=7&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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DP on string		https://www.geeksforgeeks.org/problems/edit-distance3702/1?			
	Edit distance (All the probs in this pattern are super imp, each prob is different so do solve all)	page=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/distinct-occurrences/1?			
	Distinct occurence	page=3&category=Dynamic% 20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view		
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	Interleaved strings	https://www.geeksforgeeks.org/problems/interleaved-strings/1? page=3&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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DP on partition and MCM	Best time to buy and sell stock with transaction fee	transaction-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		
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Two heaps pattern					
	Find median from data stream	https://www.geeksforgeeks.org/problems/find-median-in-a-stream- 1587115620/12page=1&category=Heap&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Find median from data stream Sliding window median	https://leetcode.com/problems/sliding-window-median/	Best Tutorial link - click to view Best Tutorial link - click to view		
	Maximum capital/IPO	https://leetcode.com/problems/silding-window-median/	Best Tutorial link - click to view		
Minimum number pattern	maximum suprawii O	mapositio de contripi do terranços	Sook Futorial IIIIA - Click to VIEW	, a too alle-click to yiew	
minimum number pattern		https://practice.geeksforgeeks.org/problems/minimum-cost-of-ropes-			
	Minimum cost to connect ropes	1587115620/1	Best Tutorial link - click to view	Article link-click to view	
	Meeting room II	https://leetcode.com/problems/meeting-rooms-ii	Best Tutorial link - click to view		
	Minimum cost to hire k workers	https://leetcode.com/problems/minimum-cost-to-hire-k-workers/	Best Tutorial link - click to view	Article link-click to view	
	Minimum num of CPU	https://leetcode.com/problems/task-scheduler/	Best Tutorial link - click to view	Article link-click to view	
	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					
	Implement Trie from scratch	https://www.codingninjas.com/studio/problems/implement-trie 631356	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/word-break-trie141631/12 itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti_			
	Word break (Do solve it using trie, though you had solved this already)	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti_ cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Longest string with all prefixes	https://leetcode.com/problems/longest-common-prefix/	Best Tutorial link - click to view		
	- J J	https://www.geeksforgeeks.org/problems/maximum-xor-of-two-numbers-in-			
		an-array/1?			
	Maximum XOR of two numbers in array	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/unique-rows-in-boolean-matrix/1?	The state of the s	The state of the s	
	L	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	Unique rows in boolean matrix	cky on Article	Best Tutorial link - click to view		
	Prefix match with other strings	https://www.geeksforgeeks.org/problems/prefix-match-with-other-strings/1	Best Tutorial link - click to view	Article IINK-Click to view	
String	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				
Must solve and Algos specific to string	, , , , , , , , , , , , , , , , , , ,				
	Implement Atoi	https://www.geeksforgeeks.org/problems/implement-atoi/1	Best Tutorial link - click to view	Article link-click to view	
	Count and say	https://leetcode.com/problems/count-and-say/	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/count-the-reversals0401/12			
	Minimum bracket reversals	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	THE PROPERTY OF THE PROPERTY O	https://practice.geeksforgeeks.org/problems/search-pattern-rabin-karp-	Soor Fatorial IIIIA - Click to VIEW	A TOTAL STATE OF THE STATE OF T	
	Rabin karp algo(Pattern searching, super imp, this was infact asked in one of my interview)	algorithm141631/1	Best Tutorial link - click to view	Article link-click to view	
		https://www.codingninjas.com/studio/problems/boyer-moore-algorithm-for- pattern-searching 1115634			
	Boyer moor algo (Pattern searching)		Best Tutorial link - click to view		
	KMP algo (Longest prefix suffix, super imp)	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix2527/1	Best Tutorial link - click to view	Article link-click to view	
	KMP algo (Longest prefix suffix, super imp) Longest happy prefix	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix2527/1 https://www.geeksforgeeks.org/longest-prefix-also-suffix/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
	KMP algo (Longest prefix suffix, super imp) Longest happy prefix Remove all adjacent duplicates	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix2527/1 https://www.geeksforgeeks.org/longest-prefix-also-suffix/ https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/	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	
	KMP algo (Longest prefix suffix, super imp) Longest happy prefix Remove all adjacent duplicates Hashing in strings	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix/2527/1 https://www.geeksforgeeks.org/longest-prefix-also-suffix/ https://eetooc.com/problems/remove-all-adjacent-duplicates-in-string/ https://eetoochecks.org/practice-problems-on-hashing/	Best Tutorial link - click to view	Article link-click to view	
	KMP algo (Longest prefix suffix, super imp) Longest happy prefix Remove all adjacent duplicates	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix2527/1 https://www.geeksforgeeks.org/longest-prefix-also-suffix/ https://www.geeksforgeeks.org/practice-problems-on-hashing/ https://www.geeksforgeeks.org/practice-problems-on-hashing/ https://www.geeksforgeeks.org/practice-problems-on-hashing/ https://weeksforgeeks.org/practice-problems-on-hashing/	Best Tutorial link - click to view Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	KMP algo (Longest prefix suffix, super imp) Longest happy prefix Remove all adjacent duplicates Hashing in strings	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix/2527/1 https://www.geeksforgeeks.org/longest-prefix-also-suffix/ https://eetooc.com/problems/remove-all-adjacent-duplicates-in-string/ https://eetoochecks.org/practice-problems-on-hashing/	Best Tutorial link - click to view	Article link-click to view Article link-dick to view Article link-dick to view Article link-dick to view Article link-click to view Article link-click to view	
	KMP algo (Longest prefix suffix, super imp) Longest happy prefix Remove all adjacent duplicates Hashing in strings Print all anagrams	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix/2527/1 https://www.geeksforgeeks.org/hongest-prefix-also-suffix/ https://leetode.com/problems/emove-all-adjacent-duplicates-in-string/ https://www.geeksforgeeks.org/practice-problems-on-hashing/ https://leetode.com/problems/group-anagrams/ https://practice.geeksforgeeks.org/problems/search-pattern-z-algorithm-	Best Tutorial link - click to view	Article link-click to view	
	KMP algo (Longest prefix suffix, super imp) Longest happy prefix Remove all adjacent duplicates Hashing in strings Print all anagrams 2 - Function	https://practice.geeksforgeeks.org/problems/longest-prefix-suffix/2527/1 https://www.geeksforgeeks.org/longest-prefix-also-suffix/ https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/ https://leetcode.com/problems/remove-all-adjacent-duplicates-in-string/ https://leetcode.com/problems/group-anagrams/ https://practice.geeksforgeeks.org/problems/search-pattern-z-algorithm— 141631/1.	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
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