Curious freaks CODING SHEET by Nandhini

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

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

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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 - 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.

Basics Beginners basic math probs Find even or odd Find even or odd Find ast digit in a number Count digits in a number (Try thinking how you can use above logic in solving this) Reverse a number(Try thinking how you can use above logic in solving this) Find power of a number GCD Article link-click to view A	Notes
Find even or odd https://practice_geeksforgeeks.org/problems/ind-last-digit_or_even3618/1 Best Tutorial link - click to view Article link-click to view Arti	
Find even or odd https://www.geeksforgeeks.org/problems/find-last-digit-of-ab-for-large- numbers 1936/1 Best Tutorial link - click to view Article link-click to view	
Find last digit in a number Count digits in a number (Solving above last digit prob will make this easy for you) https://practice.geeksforgeeks.org/problems/count-digits5716/1 Reverse a number(Try thinking how you can use above logic in solving this) https://www.geeksforgeeks.org/problems/coverse-digiti0316/1 Best Tutorial link - click to view Article link-click to view	
Count digits in a number(Solving above last digit prob will make this easy for you) Acticle link-click to view A	
Reverse a number(Try thinking how you can use above logic in solving this) https://www.geksforgeeks.org/problems/reverse-digiti0316/1 Best Tutorial link - click to view Article link-click to view	
Find power of a number https://www.geksforgeeks.org/problems/power-of-numbers-1587115820/1 GCD https://www.coeksforgeeks.org/problems/power-of-numbers-1587115820/1 bttps://www.coeksforgeeks.org/problems/power-of-numbers-1587115820/1 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 Article link-clic	
GCD https://practice.geeksforgeeks.org/problems/gcd-of-two-numbers3459/1 Best Tutorial link - click to view https://www.codingninjas.com/studio/problems/print-all-divisors-of-a-number 1164188 Best Tutorial link - click to view Article link-click to view Article link-click to view Article link-click to view	
https://www.codingninjas.com/studio/problems/print-all-divisors-of-a- number 1164188 Best Tutorial link - click to view Article link-click to view	
Print all divisors of a number 1164188 Best Tutorial link - click to view Article link-click to view	
Prime number(Try solving by yourself) https://practice.geeks.org/problems/prime-number/2314/1 Best Tutorial link - click to view Article link-click to view	
Armstrong number(Solving power of number, will make this easy for you) 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 this by yourself) Best Tutorial link - click to view Article link-click to view	
Square root of a number(Try to first figure out algo to solve this) Square root of a number(Try to first figure out algo to solve this) Square root of a number(Try to first figure out algo to solve this) Article link-click to view Article link-click to view	
Square root or a number (if your six injure out algo to solve time) Important expension general six injure out algo to solve time) Perfect number Perfect number Perfect number Perfect n	
This is a huge topic and array acts as base data structure for many concepts, so lets master the basics in this section. For all the data struture moving forward, make sure to visually note down and understand how it is represented it is represented it.	
Array - Data Structure note down and understand now 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 https://www.qeeksforgeeks.org/problems/find-minimum-and-maximum-a	
in this basics by yourself) element-in-an-array4428/1 Best Tutorial link - click to view Article link-click to view	
Find third largest element in array https://practice.geeks.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) elements) elements) elements) elements) East Tutorial link - click to view Article link-click to view	
Find missing number in array Find missing number in array See 1 (John Bills - Links Link	
Find repeating number in array Best Tutorial link - click to view	
https://www.qeeksforgeeks.org/problems/sort-an-array-of-0s-1s-and-	
Sort an array of 0s , 1s and 2s (You dont need to know any sorting algo, just using basics, once itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	
solved, definitely learn the optimal algo) <u>cky_on_Article</u> <u>Best Tutorial link - click to view</u> <u>Article link-click to view</u>	
https://www.geeksforgeeks.org/problems/check-if-two-arrays-are-equal-or- noi3847/12	
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Rotate the array by k Rotate the array by k Shown codingninias.com/studio/problems/rotate-array 1230543 Best Tudinal link - click to view Article link-click to view	
https://www.geeksforgeeks.org/problems/array-subset-of-another-	
Array subset of another array Best Tutorial link - dick 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	
Count frequency of elements in array(Solve efficiently, try applying what you learnt about map) 1557/15520/1 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	
https://www.qeeksforgeeks.org/problems/key.pair5616/12 tim_source=qeeksformeks_min_cameaign=bottom_sti	
Find pair with given sum Find pair with giv	
https://www.geeksforgeeks.org/problems/triplet-sum-in-array-	
1587115821172 Itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti	
3 Sum Soute—Jeens on Jeens and Jeens	
4 Sum https://leetcode.com/problems/4sum/ Best Tutorial link - click to view Article link-click to view	
Find triplets with zero sum https://www.geeksforgeeks.org/problems/find-triplets-with-zero-sum/1 Best Tutorial link - click to view Article link-click to view	
Find count of triplets Count the triplets Practice GeeksforGeeks Best Tutorial link - click to view Article link-click to view	
Union of two arrays(Learn the brute force & optimal soln, you will learn about set datastructure, which will be super useful in many probs in brute force) https://www.geeksforgeeks.org/problems/union-of-two-arrays3538/1 Best Tutorial link - click to view Article link-click to view	

		https://www.geeksforgeeks.org/problems/intersection-of-two-arrays2404/1?			
	Intersection of two arrays	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/remove-duplicate-elements-from-			
	Remove duplicates from array(Quite diff from above, try to solve on own, this actually shows that	sorted-array/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	not always you will have pointers at start and end)	cky on Article	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/k-th-element-of-two-sorted-			
		array1317/12 itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti			
	kth element of 2 sorted arrays	cky on Article	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-k0809/1?			
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	Length of longest subarray with sum k	cky_on_article	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/trapping-rain-water- 1587115621/1?			
	Trapping rain water	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Autota Patra Patra and an	
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Must Solve	Majority element	https://leetcode.com/problems/majority-element/	Best Tutorial link - click to view	Article link-click to view	
	majority cicinicit	https://practice.geeksforgeeks.org/problems/kadanes-algorithm-	Dest ratorial link - click to view	PARTICLE HITK-SHOK TO VICE	
	Kadane's algo(super imp)	1587115620/1	Best Tutorial link - click to view	Article link-click to view	
	Count inversions	https://practice.geeksforgeeks.org/problems/inversion-of-array- 1587115620/1	Best Tutorial link - click to view	Article link eliek to view	
	Merge intervals	https://leetcode.com/problems/merge-intervals/	Best Tutorial link - click to view		
	g	https://practice.geeksforgeeks.org/problems/maximum-product-		and the state of t	
	Maximum product subarray	subarray3604/1	Best Tutorial link - click to view		
	Next permutation	https://leetcode.com/problems/next-permutation/	Best Tutorial link - click to view		
	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	ne and space complexity for all the problems moving forward			
Matrix - Data structure	Once you learn this, in many advanced topics like graphs, DP, backtracking, this is super imp. This section is to learn 2D array and to get grip on basics				
Traversal & Basic & Must solve	Cocker to to tour 25 dray and to get grip on bacter				
	What is a 2D Array? How to access element?		Best Tutorial link - click to view	Article link-click to view	
	Search in a matrix	https://leetcode.com/problems/search-a-2d-matrix/	Best Tutorial link - click to view	Article link-click to view	
	Rotate by 90 degree	https://www.geeksforgeeks.org/problems/rotate-by-90-degree-1587115621/1	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/row-with-minimum-number-of- 1s5430/1?			
		itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti			
	Maximum num of 1's row	cky on Article	Best Tutorial link - click to view		
	Left rotate matrix k times	https://practice.geeksforgeeks.org/problems/left-rotate-matrix-k-times2351/1	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/print-matrix-in-diagonal-pattern/1? itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti			
	Print matrix in diagonal pattern	cky 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 - Technique	Recursion is super important concept!! Lets first understand the basics of recursion in this section before moving forward				
4	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	
	Print 1 to N using recursion	https://www.geeksforgeeks.org/problems/print-1-to-n-without-using-loops- 1587115620/1	Best Tutorial link - click to view	Article link-click to view	
	Factorial of N numbers	https://practice.geeksforgeeks.org/problems/factorial5739/1	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/nth-fibonacci-number1335/1?			
	Fibonacci series using recursion	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	Post Tutorial lists which to a feet	Article link eliek to view	
	Fiboriacci series using recursion	cky_on_Article https://www.geeksforgeeks.org/problems/power-of-numbers-1587115620/12	Best Tutorial link - click to view	ALLIGIE IIITK-CIICK TO VIEW	
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	Power(x,n) Draw the recursion tree for all the probs for sure	cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Print pattern	https://www.geeksforgeeks.org/problems/print-pattern3549/12 page=1&category=Recursion&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link -click to view	
		https://practice.geeksforgeeks.org/problems/implement-atoi/1?			
	Recursive implementation of atoi	utm_source=geeksforgeeks&utm_medium=ml_Article_practice_tab&utm_ca mpaign=Article_practice_tab	Best Tutorial link - click to view	Article link -click to view	
				THE SHALL SHOW TO FIGURE	
	Pascal triangle	https://www.geeksforgeeks.org/problems/pascal-triangle0652/12 page=1&category=Recursion&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link -click to view	
Binary Search - Algo	https://leetcode.com/discuss/general-discussion/691825/Binary-Search-for-Beginners-Problems-or-				
Basic pattern	- Strong or Script Conditions				
		https://www.geeksforgeeks.org/problems/who-will-win-1587115621/12			
	Search in a sorted array(Efficiently -> So learn binary search for this)	page=1&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Find floor and ceil in sorted array	https://www.geeksforgeeks.org/problems/floor-in-a-sorted-array- 1587115620/1	Best Tutorial link - click to view	Article link-click to view	
	i me noor and commit contact array	https://www.geeksforgeeks.org/problems/first-and-last-occurrences-of-	DOS. TOTOTAL HITK - CHCK TO VIEW	AND AND SHALL OF YOUR	
	Find first and last occurence of element in sorted array	x3116/1?page=1&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view		
	Find missing num from 1 to N	https://leetcode.com/problems/missing-number/	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/square-root/1? itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti			
	Find square root	cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Search for element in infinite array	https://www.codingninjas.com/studio/problems/search-in-infinite-sorted-0-1-	Best Tutorial link - click to view	Article link eliek to view	
	Search for element in fillfille array	array_696193	Dest Tutorial link - Click to View	ATTICIO IIIN-CITOR TO VIEW	
Sorted rotated array					

	Search element in sorted rotated array(With and without duplicate)	https://leetcode.com/problems/search-in-rotated-sorted-array-ii/	Best Tutorial link - click to view	Article link click to view	
		https://www.geeksforgeeks.org/problems/minimum-number-in-a-sorted-			
	Minimum element in sorted rotated array(With and without duplicate)A twist in normal BS is	rotated-array-1587115620/1?page=1&category=Binary%			
	needed, once you learnt this, solve the below by yourself, even try to solve this also by yourself	20Search&sortBy=submissions	Best Tutorial link - click to view	Article link click to view	
		https://www.geeksforgeeks.org/problems/rotation4723/1?			
		itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	Number of times array is sorted	cky_on_Article	Best Tutorial link - click to view		
	Maximum element in sorted rotated array		Best Tutorial link - click to view	Article link click to view	
Biotonic array					
		https://www.geeksforgeeks.org/problems/peak-element/1?			
		page=1&category=Arrays&difficulty=Medium&status=solved&sortBy=submis			
	Find the peak element	sions	Best Tutorial link - click to view	Article link click to view	
	Search element in biotonic array	https://www.interviewbit.com/problems/search-in-bitonic-array/	Best Tutorial link - click to view	Article link click to view	
Matrix					
		https://www.geeksforgeeks.org/problems/binary-matrix-having-maximum-			
		number-of-1s170647/1?page=2&category=Binary%			
	Find row with maximum number of 1's	20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/search-in-a-matrix-1587115621/1?			
		itm source=geeksforgeeks&itm medium=Article&itm campaign=bottom sti			
	Search in row wise column wise sorted matrix	cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Search in sorted matrix II	https://leetcode.com/problems/search-a-2d-matrix-ii/	Best Tutorial link - click to view	Article link-click to view	
	Find peak in sorted matrix	https://leetcode.com/problems/find-a-peak-element-ii/	Best Tutorial link - click to view	Article link-click to view	
Application(Super imp)				Article link-click to view	
Application(Super Imp)		h		Article link-click to view	
	Aggressive cows	https://www.geeksforgeeks.org/problems/aggressive-cows/12 page=1&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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	Allocate minimum pages	cky on Article	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/the-painters-partition-			
	Painter partition	problem1535/1?page=1&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/split-array-largest-sum141634/1?			
	Split array largest sum	page=2&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://leetcode.com/problems/minimum-number-of-days-to-make-m-			
	Minimum num of days to make m bouquets	bouquets/	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/capacity-to-ship-packages-within-			
	Capacity to ship packages within D days	d-days/1?page=2&category=Binary%20Search&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	koko eating bananas	https://leetcode.com/problems/koko-eating-bananas/	Best Tutorial link - click to view		
	kth smallest number in matrix multiplication table	https://leetcode.com/problems/kth-smallest-number-in-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	Article 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	
Carting Alga	Find smallest divisor given threshold			Article link-click to view	
Sorting - Algo	·	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode	Best Tutorial link - click to view	Article link-click to view	
Sorting - Algo	Find smallest divisor given threshold	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode https://www.geeksforgeeks.org/problems/bubble-sort/12	Best Tutorial link - click to view	Article link-click to view	
	Find smallest divisor given threshold Make sure to completely understand the algo thoroughly, and time & space complexity	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode https://www.geeksforgeeks.org/problems/bubble-sort/12 tm_source=geeksforgeeks&im_medium=Article&itm_campaign=bottom_sti	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view Article link-click to view	
Sorting - Algo	Find smallest divisor given threshold	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode https://www.geeksforgeeks.org/problems/bubble-sort/12. ttm.source=geeksforgeeks.elim.medium=Article&itm.campaign=bottom.sti cky_on_Article.	Best Tutorial link - click to view	Article link-click to view Article link-click to view	
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	Find smallest divisor given threshold Make sure to completely understand the algo thoroughly, and time & space complexity	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode https://www.geeksforgeeks.org/problems/bubble-sort/12 itm.source=geeksforgeeks.org/problems/bubble-sort/12 itm.source=geeksforgeeks.org/problems/selection-sort/12 itm.source=geeksforgeeks.org/problems/selection-sort/12 itm.source=geeksforgeeks.org/mroblems/selection-sort/12 itm.source=geeksforgeeks.org/mroblems/selection-sort/12	Best Tutorial link - click to view	Article link-click to view Article link-click to view Article link-click to view	
	Find smallest divisor given threshold Make sure to completely understand the algo thoroughly, and time & space complexity Bubble sort(very basic sorting technique)	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode https://www.geeksforgeeks.org/problems/bubble-sort/12 itm source=geeksforgeeks.itm medium=Article&itm campaign=bottom_sticky_on_Article https://www.geeksforgeeks.org/problems/selection-sort/12 itm source=geeksforgeeks.org/problems/selection-sort/12 itm source=geeksforgeeks.dim_medium=Article&itm_campaign=bottom_sticky_on_Article kty_on_Article	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	
	Find smallest divisor given threshold Make sure to completely understand the algo thoroughly, and time & space complexity Bubble sort(very basic sorting technique)	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode https://www.geeksforgeeks.org/problems/bubble-sort/12 itm.sourcesgeeksforgeeks.sim.medium=Article&itm.campaign=bottom_sticky_or_Article https://www.geeksforgeeks.org/problems/selection-sort/17 itm.sourcesgeeksforgeeks.sim.medium=Article&itm.campaign=bottom_sticky_or_Article https://www.geeksforgeeks.org/problems/insertion-sort/12	Best Tutorial link - click to view	Article link-click to view Article link-click to view Article link-click to view	
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Basics LinkedList - Data structure	Find smallest divisor given threshold Make sure to completely understand the algo thoroughly, and time & space complexity Bubble sort(very basic sorting technique) Selection sort Insertion sort Merge sort Quick sort Completely understand how Node in linkedList is represented and then go ahead with the patterns Create, Insert, Delete Operations in LL Search for an element in LL(Once create, Insert is done, this should be easy) Reverse a LL(Learn the O space approach, learn recursive & iterative soln) Check if LL is a Palindrome(Once reversing is learnt, this should be easy) Middle element of LL (Learn efficient approach) Find the intersection point of Y LL(Once you know traversal, apply node logic to solve this) Union and Intersection of LL Delete without head pointer Count pairs with given sum Reverse LL in groups of given size(Once you learn reverse of LL's efficient approach, you can try	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode https://www.geeksforgeeks.org/problems/bubble-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/selection-sor	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
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Basics LinkedList - Data structure	Find smallest divisor given threshold Make sure to completely understand the algo thoroughly, and time & space complexity Bubble sort(very basic sorting technique) Selection sort Insertion sort Merge sort Quick sort Completely understand how Node in linkedList is represented and then go ahead with the patterns Create, Insert, Delete Operations in LL Search for an element in LL(Once create, Insert is done, this should be easy) Reverse a LL(Learn the O space approach, learn recursive & iterative soln) Check if LL is a Palindrome(Once reversing is learnt, this should be easy) Middle element of LL (Learn efficient approach) Find the intersection point of Y LL(Once you know traversal, apply node logic to solve this) Union and Intersection of LL Delete without head pointer Count pairs with given sum Reverse LL in groups of given size(Once you learn reverse of LL's efficient approach, you can try	Median of 2 Sorted Arrays of Different Sizes Practice GeeksforGeeks Find the Smallest Divisor Given a Threshold - LeetCode https://www.geeksforgeeks.org/problems/bubble-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/insertion-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/1? tim.sources-geeksforgeeks.org/problems/selection-sort/selection-sor	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	

		https://www.geeksforgeeks.org/problems/detect-loop-in-linked-list/12			
	Detect loop in LL(Once this is learnt, all the loop pattern probs below should be easy)	page=1&category=Linked%20List&sortBy=submissions https://www.geeksforgeeks.org/problems/find-length-of-loop/12	Best Tutorial link - click to view	Article link - click to view	
	Find length of loop in LL	page=1&category=Linked%20List&difficulty=Easy&sortBy=submissions https://www.geeksforgeeks.org/problems/find-the-first-node-of-loop-in-	Best Tutorial link - click to view	Article link - click to view	
	Find the starting point of loop	linked-list170645/1	Best Tutorial link - click to view	Article link - click to view	
	Remove the loop	https://www.geeksforgeeks.org/problems/remove-loop-in-linked-list/12 page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view	
Sorting, Merging & Related		https://www.geeksforgeeks.org/problems/given-a-linked-list-of-0s-1s-and-2s-			
	Sort 0s, 1s, 2s in LL	sort-it/1?page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Pairwise swap elements	https://www.geeksforgeeks.org/problems/pairwise-swap-elements-of-a- linked-list-by-swapping-data/1?page=2&category=Linked% 20List&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Merge k sorted LL(Merge two sorted is easy version of this ques, if you are finding it diff to come up with logic, first solve that)	https://www.geeksforgeeks.org/problems/merge-two-sorted-linked-lists/1? page=1&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Merge sort in LL	https://www.geeksforgeeks.org/problems/sort-a-linked-list/1? page=2&category=Linked%20List&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Merge sort III LL	https://www.geeksforgeeks.org/problems/quick-sort-on-linked-list/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti	Best Tutorial link - Click to view	Atticle link-click to view	
	Quick sort in LL	cky on Article	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/remove-duplicate-element-from- sorted-linked-list/17page=1&category=Linked% 20List&difficulty=Easy&sortBy=submissions https://www.geeksforgeeks. org/problems/remove-duplicates-from-an-unsorted-linked-list/12			
	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	
	Seggregate even and odd nodes in LL	https://practice.geeksforgeeks.org/problems/segregate-even-and-odd-nodes-in-a-linked-list5035/1	Best Tutorial link - click to view	Article link-click to view	
Arithmetic(Reversal & traversal - Once you learnt these, you can solve probs in this pattern)					
	Add 1 to a number represented as LL	https://practice.geeksforgeeks.org/problems/add-1-to-a-number- represented-as-linked-list/1	Best Tutorial link - click to view	Article link-click to view	
	Add 2 numbers represented as LL	https://practice.geeksforgeeks.org/problems/add-two-numbers-represented- by-linked-lists/1	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/subtraction-in-linked-list/12 page=1&category=Linked%20List&difficulty=Hard&sortBy=submissions			
Must solve other probs(Try to solve	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	
these probs on own, brute force atleast you can come up for most of them after solving above)					
	Rotate LL	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	
	Flattening a LL(make sure to learn the efficient approach)	https://www.geeksforgeeks.org/problems/flattening-a-linked-list_170645/1? 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-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		Best Tutorial link - click to view		
	Clone a LL	https://www.geeksforgeeks.org/problems/clone-a-linked-list-with-next-and-random-pointer/1?page=1&category=Linked% 20List&difficulty=Hard&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/length-of-longest-palindrome-in- linked-list/1?page=2&category=Linked%			
	Length of longest palindrome in LL Learn the basics of circular LI	20List&difficulty=Medium&sortBy=submissions	Best Tutorial link - click to view Best Tutorial link - click to view		
Double Linked List	Econi inc basics of circular LE		Dest Tutorial IIIK - CIICK to VIEW	PARTICIO III IN CITICA TO VICTO	
	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	
		https://www.geeksforgeeks.org/problems/find-pairs-with-given-sum-in-doubly-linked-list/1?page=1&category=doubly-linked-			
Stack - Data structure	Pairs with given sum in DLL	list&difficulty=Easy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Basic					
		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	
	Implement 2 stack using array	https://www.geeksforgeeks.org/problems/implement-two-stacks-in-an- array/1?page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Check for balanced paranthesis	https://www.geeksforgeeks.org/problems/parenthesis-checker2744/1? page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Get min from stack in O(1) space and time	https://www.geeksforgeeks.org/problems/get-minimum-element-from- stack/1?page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Next greater element					
	Next greater element	https://www.geeksforgeeks.org/problems/next-larger-element- 1587115620/1?page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Next smallest element(Once above	Next greater element II	https://leetcode.com/problems/next-greater-element-ii/	Best Tutorial link - click to view	Article link-click to view	
pattern is covered, try to solve this on own)					
	Next smallest element on left	https://www.geeksforgeeks.org/problems/help-classmates141631/12 itm_source=geeksforgeeks	Best Tutorial link - click to view	Article link-click to view	

	Next smallest element on right	https://www.codingninjas.com/studio/problems/next-smaller- element_1112581	Best Tutorial link - click to view	Article link-click to view	
	Stock span problem(Implementation prob - Try to figure out the pattern from above next greater	https://www.geeksforgeeks.org/problems/stock-span-problem-			
	and smaller)	1587115621/1?page=1&category=Stack&sortBy=submissions https://www.geeksforgeeks.org/problems/trapping-rain-water-	Best Tutorial link - click to view	Article link-click to view	
		1587115621/1?			
	Trapping rainwater	itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sticky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Maximum rectangular area on histogram(Once next greater and next smallest pattern is covered, this can be solved easily)	https://www.geeksforgeeks.org/problems/maximum-rectangular-area-in-a-histogram-1587115620/1?page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Max rectangle(Same as above, just a small twist)	https://www.geeksforgeeks.org/problems/max-rectangle/12 page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Expressions					
	Infix to postfix	https://www.geeksforgeeks.org/problems/infix-to-postfix-1587115620/12 page=2&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Evaluation of postfix expression	https://www.geeksforgeeks.org/problems/evaluation-of-postfix- expression1735/1?page=2&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Prefix to postfix	https://practice.geeksforgeeks.org/problems/infix-to-postfix-1587115620/1	Best Tutorial link - click to view	Article link-click to view	
	Arithmetic expression evaluation	https://www.codingninjas.com/studio/problems/arithmetic-expression- evaluation_1170517	Best Tutorial link - click to view	Article link-click to view	
Reversing stack	, , , , , , , , , , , , , , , , , , , ,				
	Insert at hottom of stack	https://www.geeksforgeeks.org/problems/insert-an-element-at-the-bottom-of-a-stack/1?page=4&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	montal potential order	https://www.geeksforgeeks.org/problems/reverse-a-stack/1?			
	Reverse a stack	page=2&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	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					
	Celebrity problem	https://www.geeksforgeeks.org/problems/the-celebrity-problem/1? page=1&category=Stack&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	, ,	https://www.geeksforgeeks.org/problems/restrictive-candy-crush-141631/1?			
	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-reversals0401/1? page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Queue - Data structure					
Basic pattern		h 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
	What is queue? Learn the basic representation and how its implemented?	https://www.geeksforgeeks.org/problems/implement-queue-using-array/1? 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/1? 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/12 page=1&category=Queue&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/minimum-cost-of-ropes-			
	Minimum cost of ropes	1587115620/1?page=1&category=Queue&sortBy=submissions https://www.geeksforgeeks.org/problems/nearly-sorted-1587115620/1?	Best Tutorial link - click to view	Article link-click to view	
	Nearly sorted(Learn priority queue for sure)	page=3&category=Arrays&difficulty=Medium	Best Tutorial link - click to view	Article link-click to view	
Sliding Window - Technique	CookEarCooks has you limited probe in this tanks are also be taken to facilities are if	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-			
		k5313/1? itm_source=geeksforgeeks&itm_medium=Article&itm_campaign=bottom_sti			
	Maximum sum subarray of size k	cky_on_Article	Best Tutorial link - click to view	Article link-click to view	
	Count distinct element in every window(Once you understoor handling window size fixed from above prob, this will be easy)	https://www.geeksforgeeks.org/problems/count-distinct-elements-in-every- window/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	First negative integer in every window of size k(Try to solve on own before looking for soln since you did above topics too already	https://www.geeksforgeeks.org/problems/first-negative-integer-in-every- window-of-size-k3345/1?page=1&category=sliding- window&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	
		https://www.geeksforgeeks.org/problems/substrings-of-length-k-with-k-1-			
	Count substring of length k with k-1 distinct elements	distinct-elements/1?page=1&category=sliding-window&sortBy=submissions https://www.geeksforgeeks.org/problems/maximum-of-minimum-for-every-	Best Tutorial link - click to view	Article link-click to view	
Variable sliding window(Each prob will	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	
teach something in addition to the window so do solve everything)	5				

	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	Article link-click to view	
	Longest subarray with given sum k(Same as above with slight modification)	https://www.geeksforgeeks.org/problems/longest-sub-array-with-sum-k0809/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Subarray with 0 sum	https://www.geeksforgeeks.org/problems/subarray-with-0-sum- 1587115621/1?page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Smallest window of distinct elements	https://www.geeksforgeeks.org/problems/smallest-distant-window3132/12 page=1&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Smallest window containing 0,1,2	https://www.geeksforgeeks.org/problems/smallest-window-containing-0-1- and-2170637/1?page=2&category=sliding-window&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	3,7,	https://www.geeksforgeeks.org/problems/smallest-window-in-a-string- containing-all-the-characters-of-another-string-1587115621/1?			
	Smallest window in string containing all chars of another string	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/1? 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		
	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		
	Count number of nice subarrays Longest repeating char replacement	https://leetcode.com/problems/count-number-of-nice-subarrays/	Best Tutorial link - click to view Best Tutorial link - click to view	Article link-click to view	
	Minimum window substring	https://leetcode.com/problems/longest-repeating-character-replacement https://leetcode.com/problems/minimum-window-substring/description/	Best Tutorial link - click to view	Article link-click to view	
	Minimum window subsequence(Understand the diff between subarray and subsequence before	The state of the proposition of the state of	Sect additional link - click to view	A STATE OF THE PROPERTY OF THE	
	starting this prob)	https://leetcode.com/problems/minimum-window-subsequence/	Best Tutorial link - click to view		
	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	
Trees - Data structure					
Traversals	Understand the basic of how tree data structure is represented	https://www.gooksforgooks.org/problems/seconds-treversel/42	Best Tutorial link - click to view		
	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	
	InOrder Traversal	https://www.geeksforgeeks.org/problems/inorder-traversal/1? page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	PostOrder Traversal	https://www.geeksforgeeks.org/problems/postorder-traversal/1? page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Level Order Traversal	https://www.geeksforgeeks.org/problems/level-order-traversal/1? page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Boundary Traversal(Once level traversal is learnt, this you can solve)	https://www.geeksforgeeks.org/problems/boundary-traversal-of-binary-tree/1?page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Vertical Traversal(Once level traversal is learnt, this you can solve, lil extra logic is needed)	https://www.geeksforgeeks.org/problems/print-a-binary-tree-in-vertical- order/1?page=1&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/top-view-of-binary-tree/1?	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)	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/1? 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/1? 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)					
	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/12 page=1&category=Tree&sortBy=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/12 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	Article link-click to view	
	Check if subtree	https://www.geeksforgeeks.org/problems/check-if-subtree/12 page=2&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Check for balanced tree	https://www.geeksforgeeks.org/problems/check-for-balanced-tree/1? page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Lowest common Ancestor in BT	https://www.geeksforgeeks.org/problems/lowest-common-ancestor-in-a-binary-tree/1?page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Sum tree	https://www.geeksforgeeks.org/problems/sum-tree/1? page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Symmetric tree	https://www.geeksforgeeks.org/problems/symmetric-tree/12 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/12 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&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Path and Distance		bade=2&catedory=free&sortby=submissions			
. a a Distance		https://www.geeksforgeeks.org/problems/root-to-leaf-paths/12			
	Root to leaf paths	page=4&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/root-to-leaf-paths/12	Best Tutorial link - click to view	Article link-click to view	
	Root to leaf path sum (Once the root to leaf path is solved, this should be easy)	page=4&category=Tree&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/12	Best Tutorial link - click to view	Article link click to view	
	K Sum Patris (Once the root to lear patri is solved, this should be easy)	page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/nodes-at-given-distance-in-binary-	Dest Tutorial link - Click to view	Article link-click to view	
	Nodes at given distance	tree/1?page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view		
	Range sum of BST(Solving nodes at given distance, will make this easy)	https://www.geeksforgeeks.org/problems/min-distance-between-two-given-	Best Tutorial link - click to view	Article link-click to view	
	Minimum distance between 2 nodes(Solving nodes at given distance, will make this easy)	ndes-of-a-binary-tree/1?page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/maximum-difference-between-	Best Tutorial link - click to view	Article link-click to view	
	Maximum distance between node and ancestor(Must solve though distance pattern is covered)	node-and-its-ancestor/17page=3&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/burning-tree/1?	Best Tutorial link - click to view	Article link-click to view	
	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?		Best Tutorial link - click to view		
with probs)	Insert a node in BST	https://leetcode.com/problems/insert-into-a-binary-search-tree/	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		
	E-1	https://www.geeksforgeeks.org/problems/max-and-min-element-in-binary-			
	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	tree/1?page=5&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/kth-largest-element-in-bst/12	Best Tutorial link - click to view	Article link-click to view	
	have mastered all the above patterns, this should be easy)	page=2&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/check-for-bst/12	Best Tutorial link - click to view	Article link-click to view	
	Check for BST(Try solving probs in this pattern by yourself till LCA once above are solved)	page=1&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Find the closest element in BST	https://www.geeksforgeeks.org/problems/find-the-closest-element-in-bst/12 page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Count BST nodes in the given range	https://www.geeksforgeeks.org/problems/count-bst-nodes-that-lie-in-a-given- range/1?page=3&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/largest-bst/1?			
	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		
	Merge two BST(Super imp - Must solve)	page=4&category=Tree&sortBy=submissions https://www.geeksforgeeks.org/problems/predecessor-and-successor/12	Best Tutorial link - click to view	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	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)	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	Article 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	Article 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	$\frac{\text{https://www.geeksforgeeks.org/problems/serialize-and-deserialize-a-binary-tree/1?page=4\&category=Tree\&sortBy=submissions}{}$	Best Tutorial link - click to view	Article link-click to view	
	Largest subtree sum in a tree	https://www.geeksforgeeks.org/problems/largest-subtree-sum-in-a-tree/1? 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 https://www.geeksforgeeks.org/problems/flatten-binary-tree-to-linked-list/1?	Best Tutorial link - click to view		
	Flatten BT to linked list	page=5&category=Tree&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Backtracking & Recursion	This is super imp topic before moving further!! Draw the recursion tree to understand the	https://leetcode.com/discuss/general-discussion/680269/a-general-approach-to-backtracking-problems-in-cexhaustive-			
advanced - Technique 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)	flow as the first step, this will help in visualization of the flow Understand the basics of backtracking and start solving	searching			
	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	https://www.geeksforgeeks.org/problems/combination-sum-1587115620/12 page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Combination sum II(Once you solve combination I, you should be able to solve this and below 2				
	probs too easily) Combination sum III	https://leetcode.com/problems/combination-sum-ii https://leetcode.com/problems/combination-sum-iii	Best Tutorial link - click to view Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/rat-in-a-maze-problem/1?			
	Rat in maze(Once above probs are solved, you can do this easily)	page=1&category=Backtracking&sortBy=submissions 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	

		https://www.geeksforgeeks.org/problems/subsets-1613027340/12			
	Subsets	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-1587115621/12 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 https://www.geeksforgeeks.org/problems/permutation-with-spaces3627/1?			
	Permutation with spaces	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/1? 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/1? 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/1? page=3&category=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/12 page=2&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Decode the string	https://www.geeksforgeeks.org/problems/decode-the-string2444/1? page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Letter case permutation	https://leetcode.com/problems/letter-case-permutation/	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	Article 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	Article 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	Article link-click to view	
	Partition array to k subsets	page=1&category=Backtracking&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Graphs - Data structure	Most of the probs in this topics can be solved once you learn first couple of probs in each pattern of this topics	https://leetcode.com/discuss/general-discussion/655708/graph-for- beginners-problems-pattern-sample-solutions/			
Traversals & Basic	Understand how graph is represented?		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	
	DFS Traversal(Super imp and basic)	https://www.geeksforgeeks.org/problems/depth-first-traversal-for-a-graph/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Detect cycle in Directed graph	https://www.geeksforgeeks.org/problems/detect-cycle-in-a-directed-graph/12 page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Detect cycle in Undirected graph	https://www.geeksforgeeks.org/problems/detect-cycle-in-an-undirected- graph/1?page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Detect Negative cycle in graph	https://www.geeksforgeeks.org/problems/negative-weight-cycle3504/1? page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Connected component(After traversal, this will be easy to solve)	,				
and this be easy to derive,	Connected component(Once you master this , all the below using this pattern will become super	https://practice.geeksforgeeks.org/problems/strongly-connected-component-			
	easy)	tarjanss-algo-1587115621/1 https://www.geeksforgeeks.org/problems/number-of-provinces/1?	Best Tutorial link - click to view		
	Number of Provinces(Learn how to solve this prob and solve the below in this pattern)	page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/find-the-number-of-islands/1?	Best Tutorial link - click to view		
	Number of Islands	page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/number-of-distinct-islands/1?	Best Tutorial link - click to view	Article link-click to view	
	Number of distinct island	page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/find-number-of-closed-islands/1?	Best Tutorial link - click to view	Article link-click to view	
Dinastita	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?			
	Bipartite graph	page=1&category=Graph&sortBy=submissions https://practice.geeksforgeeks.org/problems/m-coloring-problem-	Best Tutorial link - click to view		
	M-colouring	1587115620/1 https://www.codingninias.com/studio/problems/shortest-path-in-an-	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)	unweighted-graph 981297 https://www.geeksforgeeks.org/problems/shortest-path-in-undirected-	Best Tutorial link - click to view	Article link-click to view	
	Find shortest path in DAG	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-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-exist5238/12 page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Covid spread	https://www.geeksforgeeks.org/problems/covid-spread141631/12 page=4&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Minimum cost path	https://www.geeksforgeeks.org/problems/minimum-cost-path3833/1? page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Word ladder I	https://www.geeksforgeeks.org/problems/word-ladder/1?	Best Tutorial link - click to view		
		page=3&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/word-ladder-ii/12			
	Word ladder II	page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	

		https://www.geeksforgeeks.org/problems/implementing-floyd-			
	Floyd warshal algo	warshall2042/1?page=1&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/distance-from-the-source-bellman-	Best Tutorial link - click to view		
Multi Source	Bellmanford algo(Imp - Will be used for negative cycle)	ford-algorithm/1?page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
Multi Source		https://www.geeksforgeeks.org/problems/flood-fill-algorithm1856/1?			
	Flood fill	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- 1587115620/1?page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Rotten Oranges	https://www.geeksforgeeks.org/problems/rotten-oranges2536/1? page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link eliek to view	
Topological sort	Total Granges	page=racategory=Graphasortby=Submissions	Dest ratorial link - click to view	PATRICIO III IN-CIICA TO VICW	
	Topological sort algo(Learning this algo, will make you solve all the probs in this pattern)	https://www.geeksforgeeks.org/problems/topological-sort/1? page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/prerequisite-tasks/1?			
	Prerequisite tasks	page=2&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/course-schedule/12	Best Tutorial link - click to view	Article link-click to view	
	Course schedule I	page=3&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Course schedule II	https://leetcode.com/problems/course-schedule-ii https://www.geeksforgeeks.org/problems/eventual-safe-states/1?	Best Tutorial link - click to view	Article link-click to view	
	Eventual safe states	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&category=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/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		
	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	Article link-click to view	
Diojonic out	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/1? page=1&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	,	https://www.geeksforgeeks.org/problems/santa-banta2814/1?			
	Santa Banta	page=3&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/number-of-pairs-1645358985/1?	Best Tutorial link - click to view	Article link-click to view	
	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					
	Bridges in graph	https://www.geeksforgeeks.org/problems/bridge-edge-in-graph/1? 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?	Best Tutorial link - click to view		
	Articulation point	page=3&category=Graph&sortBy=submissions https://www.geeksforgeeks.org/problems/critical-connections/12	Best Tutorial link - click to view	Article link-click to view	
	Critical connection	page=5&category=Graph&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Kosaraja algo (Strongly connected component algo)	https://www.geeksforgeeks.org/problems/strongly-connected-components- kosarajus-algo/1?page=2&category=Graph&sortBy=submissions	Best Tutorial link - click to view		
	Word boggle Word boggle II	https://www.geeksforgeeks.org/problems/word-boggle4143/1? https://www.geeksforgeeks.org/problems/word-boggle-ii141631/1?	Best Tutorial link - click to view Best Tutorial link - click to view		
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Basics and must solves					
	Minimum number of jumps	https://www.geeksforgeeks.org/problems/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-operation4504/1?	Best Tutorial link - click to view		
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	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/1? 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		
		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 https://www.geeksforgeeks.org/problems/minimum-platforms-	Best Tutorial link - click to view	Article link-click to view	
	Minimum platforms	1587115620/1?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 to use greedy here)	https://www.geeksforgeeks.org/problems/-minimum-number-of-coins4426/11 page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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	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	
	Fractional knapsack	https://www.geeksforgeeks.org/problems/fractional-knapsack- 1587115620/1?page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	.lump game	https://www.geeksforgeeks.org/problems/jump-game/12 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/	Best Tutorial link - click to view		
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	Partition labels Cinema seat allocation	https://leetcode.com/problems/partition-labels/	Best Tutorial link - click to view		
	Cinema seat allocation	https://leetcode.com/problems/cinema-seat-allocation/ https://www.geeksforgeeks.org/problems/max-length-chain/12	Best Tutorial link - click to view	Article link-click to view	
	Max length chain	page=1&category=Greedy&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Valid parantheses - Minimum	https://leetcode.com/problems/minimum-add-to-make-parentheses-valid/	Best Tutorial link - click to view	Article link-click to view	
	Shortest job first	https://practice.geeksforgeeks.org/problems/shortest-job-first/1	Best Tutorial link - click to view	Article link-click to view	
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Dynamic Programming - Technique	DP is super crucial lopic and very commonly asked in many interviewell One major thing you need to know is, don't start with fabulation approach directly, thats vrong way to learn DP. First find the solution using recursion, then memoization and then finally tabulation and space reduction in tabulation.	https://leetcode.com/discuss/general-discussion/662866/dp-for-beginners- problems-patterns-sample-solutions			
Basic					
	Understand the basics!!		Best Tutorial link - click to view	Article link-click to view	
1D - Linear DP					
	Count num of hops	https://www.geeksforgeeks.org/problems/count-number-of-hops- 1587115620/12page=2&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/count-ways-to-reach-the-nth-stair-			
	Count way to reach nth stair(Order matters)	1587115620/1?page=2&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
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	Count way to reach nth stair(Order doesn't matter)	not-matter5639/1?page=4&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	House robber	https://leetcode.com/problems/house-robber/		Article link-click to view	
	House robber II	https://leetcode.com/problems/house-robber-ii/	Best Tutorial link - click to view	Article link-click to view	
2D Grid DP				Article link-click to view	
	Count paths - grid	https://www.geeksforgeeks.org/problems/count-the-paths4332/12 page=5&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link eliek to view	
	Unique paths II	https://leetcode.com/problems/unique-paths-ii/	Best Tutorial link - click to view		
	Count all possible paths with condition(You can solve this by yourself once above two are solved)	https://www.geeksforgeeks.org/problems/count-all-possible-paths-from-top-left-to-bottom-right3011/17page=3&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view		
	Minimum path sum in grid	https://leetcode.com/problems/minimum-path-sum/	Best Tutorial link - click to view		
		https://www.geeksforgeeks.org/problems/path-in-matrix3805/1?			
	Max path sum	page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial 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	
	Number of paths with k coins	https://www.geeksforgeeks.org/problems/number-of-paths-in-a-matrix-with- k-coins2728/1?page=7&category=Dynamic% 20Programming&sortBy=submissions	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					
	Subset sum problem	https://www.geeksforgeeks.org/problems/subset-sum-problem- 1611555638/1?page=1&category=Dynamic% 20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view	Article link - click to view	
	Count subset with given sum k	https://www.geeksforgeeks.org/problems/perfect-sum-problem5633/1? page=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?			
	Partition equal subset sum(Try to do it on own after solving above two, just a small trick)	page=1&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/minimum-sum-partition3317/1?	Best Tutorial link - click to view		
	Minimum sum partition	page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view		
	Count partition with given diff	https://www.geeksforgeeks.org/problems/0-1-knapsack-problem0945/12	Best Tutorial link - click to view	Article link-click to view	
	0-1 Knapsack	page=1&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Maximum non adjacent subsequence	https://www.geeksforgeeks.org/problems/max-sum-without- adjacents2430/1?page=3&category=Dynamic% 20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Cain abanes	https://www.geeksforgeeks.org/problems/coin-change2448/1?	Deat Tutorial link alights of the	Adiata tials atials to view	
	Coin change	page=1&category=Dynamic%20Programming&sortBy=submissions https://www.geeksforgeeks.org/problems/number-of-coins1824/12	Best Tutorial link - click to view		
	Min number of coins	page=2&category=Dynamic%20Programming&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
		https://www.geeksforgeeks.org/problems/rod-cutting0840/1? page=2&category=Dynamic%			
	Rod cutting	20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	
	Target sum	https://leetcode.com/problems/target-sum https://www.geeksforgeeks.org/problems/minimum-cost-to-fill-given-weight-	Best Tutorial link - click to view		
	Minimum cost to fill given weight in bag(Solving the above probs in this pattern will make this super easy)	https://www.geexstorgeexs.org/problems/minimum-cost-to-nii-given-weignt- in-a-bag1956/17page-3&category=Dynamic% 20Programming&status=solved&sortBy=submissions	Best Tutorial link - click to view	Article link-click to view	

Best time to buy and sell stock Best Tutorial link - click to view Best time to buy and sell stock III (Once you solve the above prob, all probs in this pattern are extend https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/ Best time to buy and sell stock III https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/ Best time to buy and sell stock IV https://leetcode.com/problems/best-time-to-buy-and-sell-stock-ii/ Best tutorial link - click to view Best Tutorial link - click to view Article link-click to view						
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Basic patterns					
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Top k pattern					
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Basic and must solve					
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	
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There are couple of more topics, bit manipulation, segment trees and AVL trees which has limited number of probs, so do check that out if you have good amount of time still left	
Checkout this for bit tricks - https://leetcode.com/discuss/general-discussion/1073221/All-about-Bitwise-Operations-Beginner-Intermediate	
Leetcode Article for behavioural	
rounds	https://leetcode.com/discuss/interview-experience/1532708/tips-for-answering-few-tricky-behavioural-interview-questions
Leetcode Article for major	
patterns	https://leetcode.com/discuss/general-discussion/665604/Important-and-Useful-links-from-all-over-the-LeetCode
Resume standard template	https://www.overleaf.com/Articles/ravi-kukretis-resume/cxprrkxbccgb
Try to solve atleast 5+ problems per day to master it at the earliest	