Questions by Love Babbar:

Youtube Channel:https://www.youtube.com/channel/UCQHLxxBFrbfdrk1jF0moTpw

Topic:	Problem:	Done [yes or no]
		<>
Array	Reverse the array	<>
Array	Find the maximum and minimum element in an array	<>
Array	Find the "Kth" max and min element of an array	<>
Array	Given an array which consists of only 0, 1 and 2. Sort the array without using any sorting algo	<>
Array	Move all the negative elements to one side of the array	<>
Array	Find the Union and Intersection of the two sorted arrays.	<>
Array	Write a program to cyclically rotate an array by one.	<>
Array	find Largest sum contiguous Subarray [V. IMP]	<>
Array	Minimise the maximum difference between heights [V.IMP]	<>
Array	Minimum no. of Jumps to reach end of an array	<>
Array	find duplicate in an array of N+1 Integers	<>
Array	Merge 2 sorted arrays without using Extra space.	<>
Array	Kadane's Algo [V.V.V.V.V IMP]	<>
Array	Merge Intervals	<>
Array	Next Permutation	<>
Array	Count Inversion	<>
Array	Best time to buy and Sell stock	<>
Array	find all pairs on integer array whose sum is equal to given number	<>
Array	find common elements In 3 sorted arrays	<>
Array	Rearrange the array in alternating positive and negative items with O(1) extra space	<>
Array	Find if there is any subarray with sum equal to 0	<>
Array	Find factorial of a large number	<>
Array	find maximum product subarray	<>
Array	Find longest coinsecutive subsequence	<>
Array	Given an array of size n and a number k, fin all elements that appear more than " n/k " times.	<>
Array	Maximum profit by buying and selling a share atmost twice	<>
Array	Find whether an array is a subset of another array	<>
Array	Find the triplet that sum to a given value	<>
Array	Trapping Rain water problem	<>
Array	Chocolate Distribution problem	<>
Array	Smallest Subarray with sum greater than a given value	<>
Array	Three way partitioning of an array around a given value	<>
Array	Minimum swaps required bring elements less equal K together	<>
Array	Minimum no. of operations required to make an array palindrome	<>
Array	Median of 2 sorted arrays of equal size	<>
Array	Median of 2 sorted arrays of different size	<>
		<>
		<>
Matrix	Spiral traversal on a Matrix	<>
Matrix	Search an element in a matriix	<>
Matrix	Find median in a row wise sorted matrix	<>
Matrix	Find row with maximum no. of 1's	<>
Matrix	Print elements in sorted order using row-column wise sorted matrix	<>
Matrix	Maximum size rectangle	<>
Matrix	Find a specific pair in matrix	<>
Matrix	Rotate matrix by 90 degrees	<>
Matrix	Kth smallest element in a row-cpumn wise sorted matrix	<>
Matrix	Common elements in all rows of a given matrix	<>
String	Reverse a String	<>
String	Check whether a String is Palindrome or not	<>
String	Find Duplicate characters in a string	<>
String	Why strings are immutable in Java?	<>
String	Write a Code to check whether one string is a rotation of another	<>
String	Write a Program to check whether a string is a valid shuffle of two strings or not	<>
String	Count and Say problem	<>
String	Write a program to find the longest Palindrome in a string.[Longest palindromic Substring]	<>
String	Find Longest Recurring Subsequence in String	<>
String	Print all Subsequences of a string.	<>
String	Print all the permutations of the given string	<>
String	Split the Binary string into two substring with equal 0's and 1's	<>
String	Word Wrap Problem [VERY IMP].	<>
String	EDIT Distance [Very Imp]	<>
String	Find next greater number with same set of digits. [Very Very IMP]	<>
String	Balanced Parenthesis problem.[Imp]	<>
String	Word break Problem[Very Imp]	<>
String	Rabin Karp Algo	<>
String	KMP Algo	<>
String	Convert a Sentence into its equivalent mobile numeric keypad sequence.	<>
String	Minimum number of bracket reversals needed to make an expression balanced.	<>
String	Count All Palindromic Subsequence in a given String.	<>
String	Count of number of given string in 2D character array	<>
String	Search a Word in a 2D Grid of characters.	<>
String	Boyer Moore Algorithm for Pattern Searching.	<>
String	Converting Roman Numerals to Decimal	<>
String	Longest Common Prefix	<>
String	Number of flips to make binary string alternate	<>
String	Find the first repeated word in string.	<>
String	Minimum number of swaps for bracket balancing.	<>
String	Find the longest common subsequence between two strings.	<>
String	Program to generate all possible valid IP addresses from given string.	<>
String	Write a program tofind the smallest window that contains all characters of string itself.	<>
String	Rearrange characters in a string such that no two adjacent are same	<>

String	Minimum characters to be added at front to make string palindrome	<>
String	Given a sequence of words, print all anagrams together	<>
String	Find the smallest window in a string containing all characters of another string	<>
String	Recursively remove all adjacent duplicates	<>
String	String matching where one string contains wildcard characters	<>
String	Function to find Number of customers who could not get a computer	<>
String	Transform One String to Another using Minimum Number of Given Operation	<>
String	Check if two given strings are isomorphic to each other	<>
String	Recursively print all sentences that can be formed from list of word lists	<>
Searching & Sorting	Find first and last positions of an element in a sorted array	<>
Searching & Sorting	Find a Fixed Point (Value equal to index) in a given array	<>
Searching & Sorting	Search in a rotated sorted array	<>
Searching & Sorting	square root of an integer	<>
Searching & Sorting	Maximum and minimum of an array using minimum number of comparisons	<>
Searching & Sorting	Optimum location of point to minimize total distance	<>
Searching & Sorting	Find the repeating and the missing	<>
Searching & Sorting	find majority element	<>
Searching & Sorting	Searching in an array where adjacent differ by at most k	<>
Searching & Sorting	find a pair with a given difference	<>
Searching & Sorting	find four elements that sum to a given value	<>
Searching & Sorting	maximum sum such that no 2 elements are adjacent	<>
Searching & Sorting	Count triplet with sum smaller than a given value	<>
Searching & Sorting	merge 2 sorted arrays	<>
Searching & Sorting	print all subarrays with 0 sum	<>
Searching & Sorting	Product array Puzzle	<>
Searching & Sorting	Sort array according to count of set bits	<>
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Searching & Sorting	Findthe inversion count	<>
Searching & Sorting	Implement Merge-sort in-place	<>
Searching & Sorting	Partitioning and Sorting Arrays with Many Repeated Entries	<>
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LinkedList	Reverse a Linked List in group of Given Size. [Very Imp]	<>
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LinkedList	Add “1” to a number represented as a Linked List.	<>
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LinkedList	Intersection of two Sorted Linked List.	<>
LinkedList	Intersection Point of two Linked Lists.	<>
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LinkedList	Quicksort for Linked Lists.[Very Important]	<>
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Greedy	Activity Selection Problem	<>
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Greedy	Maximum trains for which stoppage can be provided	<>
Greedy	Minimum Platforms Problem	<>
Greedy	Buy Maximum Stocks if i stocks can be bought on i-th day	<>
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Greedy	Minimize Cash Flow among a given set of friends who have borrowed money from each other	<>
Greedy	Minimum Cost to cut a board into squares	<>
Greedy	Check if it is possible to survive on Island	<>
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Greedy	Maximize array sum after K negations	<>
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Greedy	Maximize sum of consecutive differences in a circular array	<>
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Greedy	DIEHARD -DIE HARD	<>
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Greedy	CHOCOLA –Chocolate	<>

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Greedy	K Centers Problem	<>
Greedy	Minimum Cost of ropes	<>
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Greedy	Find maximum sum possible equal sum of three stacks	<>

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BackTracking	Find shortest safe route in a path with landmines	<>
BackTracking	Combinational Sum	<>
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Stacks & Queues	Implement Stack from Scratch	<>
Stacks & Queues	Implement Queue from Scratch	<>
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Stacks & Queues	Minimum sum of squares of character counts in a given string after removing "k" characters.	<>
Stacks & Queues	Queue based approach or first non-repeating character in a stream.	<>
Stacks & Queues	Next Smaller Element	<>

Heap	Implement a Maxheap/MinHeap using arrays and recursion.	<>
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Heap	"k" largest element in an array	<>
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Heap	Convert min heap to max heap	<>
Heap	Rearrange characters in a string such that no two adjacent are same.	<>
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Graph	Create a Graph, print it	<>
Graph	Implement BFS algorithm	<>
Graph	Implement DFS Algo	<>
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Graph	Search in a Maze	<>
Graph	Minimum Step by Knight	<>
Graph	flood fill algo	<>
Graph	Clone a graph	<>
Graph	Making wired Connections	<>
Graph	word Ladder	<>
Graph	Dijkstra algo	<>
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Graph	Find the no. of Isalnds	<>
Graph	Given a sorted Dictionary of an Alien Language, find order of characters	<>
Graph	Implement Kruksal'sAlgorithm	<>
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Graph	Check whether a graph is Bipartite or Not	<>
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Graph	Cheapest Flights Within K Stops	<>
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Graph	Water Jug problem using BFS	<>
Graph	Water Jug problem using BFS	<>
Graph	Find if there is a path of more thank length from a source	<>
Graph	M-ColouringProblem	<>
Graph	Minimum edges to reverse o make path from source to destination	<>
Graph	Paths to travel each nodes using each edge(Seven Bridges)	<>
Graph	Vertex Cover Problem	<>
Graph	Chinese Postman or Route Inspection	<>
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Graph	Minimise the cashflow among a given set of friends who have borrowed money from each other	<>
Graph	Two Clique Problem	<>

Trie	Construct a trie from scratch	<>
Trie	Find shortest unique prefix for every word in a given list	<>
Trie	Word Break Problem	(Trie solution)	<>
Trie	Given a sequence of words, print all anagrams together	<>
Trie	Implement a Phone Directory	<>
Trie	Print unique rows in a given boolean matrix	<>

Dynamic Programming	Coin ChangeProblem	<>
Dynamic Programming	Knapsack Problem	<>
Dynamic Programming	Binomial CoefficientProblem	<>
Dynamic Programming	Permutation CoefficientProblem	<>
Dynamic Programming	Program for nth Catalan Number	<>
Dynamic Programming	Matrix Chain Multiplication	<>
Dynamic Programming	Edit Distance	<>
Dynamic Programming	Subset Sum Problem	<>
Dynamic Programming	Friends Pairing Problem	<>
Dynamic Programming	Gold Mine Problem	<>
Dynamic Programming	Assembly Line SchedulingProblem	<>
Dynamic Programming	Painting the Fenceproblem	<>
Dynamic Programming	Maximize The Cut Segments	<>
Dynamic Programming	Longest Common Subsequence	<>
Dynamic Programming	Longest Repeated Subsequence	<>
Dynamic Programming	Longest Increasing Subsequence	<>
Dynamic Programming	Space Optimized Solution of LCS	<>
Dynamic Programming	LCS (Longest Common Subsequence) of three strings	<>
Dynamic Programming	Maximum Sum Increasing Subsequence	<>
Dynamic Programming	Count all subsequences having product less than K	<>
Dynamic Programming	Longest subsequence such that difference between adjacent is one	<>
Dynamic Programming	Maximum subsequence sum such that no three are consecutive	<>
Dynamic Programming	Egg Dropping Problem	<>
Dynamic Programming	Maximum Length Chain of Pairs	<>
Dynamic Programming	Maximum size square sub-matrix with all 1s	<>
Dynamic Programming	Maximum sum of pairs with specific difference	<>
Dynamic Programming	Min Cost PathProblem	<>
Dynamic Programming	Maximum difference of zeros and ones in binary string	<>
Dynamic Programming	Minimum number of jumps to reach end	<>
Dynamic Programming	Minimum cost to fill given weight in a bag	<>
Dynamic Programming	Minimum removals from array to make max –min <= K	<>
Dynamic Programming	Longest Common Substring	<>
Dynamic Programming	Count number of ways to reacha given score in a game	<>

Dynamic Programming	Count Balanced Binary Trees of Height h	<>
Dynamic Programming	LargestSum Contiguous Subarray [V>V>V>V IMP]	<>
Dynamic Programming	Smallest sum contiguous subarray	<>
Dynamic Programming	Unbounded Knapsack (Repetition of items allowed)	<>
Dynamic Programming	Word Break Problem	<>
Dynamic Programming	Largest Independent Set Problem	<>
Dynamic Programming	Partition problem	<>
Dynamic Programming	Longest Palindromic Subsequence	<>
Dynamic Programming	Count All Palindromic Subsequence in a given String	<>
Dynamic Programming	Longest Palindromic Substring	<>
Dynamic Programming	Longest alternating subsequence	<>
Dynamic Programming	Weighted Job Scheduling	<>
Dynamic Programming	Coin game winner where every player has three choices	<>
Dynamic Programming	Count Derangements (Permutation such that no element appears in its original position) [IMPORTANT]	<>
Dynamic Programming	Maximum profit by buying and selling a share at most twice [IMP]	<>
Dynamic Programming	Optimal Strategy for a Game	<>
Dynamic Programming	Optimal Binary Search Tree	<>
Dynamic Programming	Palindrome PartitioningProblem	<>
Dynamic Programming	Word Wrap Problem	<>
Dynamic Programming	Mobile Numeric Keypad Problem [IMP]	<>
Dynamic Programming	Boolean Parenthesization Problem	<>
Dynamic Programming	Largest rectangular sub-matrix whose sum is 0	<>
Dynamic Programming	Largest area rectangular sub-matrix with equal number of 1's and 0's [IMP]	<>
Dynamic Programming	Maximum sum rectangle in a 2D matrix	<>
Dynamic Programming	Maximum profit by buying and selling a share at most k times	<>
Dynamic Programming	Find if a string is interleaved of two other strings	<>
Dynamic Programming	Maximum Length of Pair Chain	<>

Bit Manipulation	Count set bits in an integer	<>
Bit Manipulation	Find the two non-repeating elements in an array of repeating elements	<>
Bit Manipulation	Count number of bits to be flipped to convert A to B	<>
Bit Manipulation	Count total set bits in all numbers from 1 to n	<>
Bit Manipulation	Program to find whether a no is power of two	<>
Bit Manipulation	Find position of the only set bit	<>
Bit Manipulation	Copy set bits in a range	<>
Bit Manipulation	Divide two integers without using multiplication, division and mod operator	<>
Bit Manipulation	Calculate square of a number without using *, / and pow()	<>
Bit Manipulation	Power Set	<>