

Topic:

Array

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Searching & Sorting

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Dynamic Programming
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Dynamic Programming
Dynamic Programming

Dynamic Programming

Dynamic Programming

Bit Manipulation

Questions by Love Babbar:

Youtube Channel: <https://www.youtube.com/channel/UCQHLxxBFrbfdrk1jF0moTpW>

Problem:

Reverse the array

Find the maximum and minimum element in an array

Find the "Kth" max and min element of an array

Given an array which consists of only 0, 1 and 2. Sort the array without using

Move all the negative elements to one side of the array

Find the Union and Intersection of the two sorted arrays.

Write a program to cyclically rotate an array by one.

find Largest sum contiguous Subarray [V. IMP]

Minimise the maximum difference between heights [V.IMP]

Minimum no. of Jumps to reach end of an array

find duplicate in an array of N+1 Integers

Merge 2 sorted arrays without using Extra space.

Kadane's Algo [V.V.V.V.V IMP]

Merge Intervals

Next Permutation

Count Inversion

Best time to buy and Sell stock

find all pairs on integer array whose sum is equal to given number

find common elements In 3 sorted arrays

Rearrange the array in alternating positive and negative items with O(1) extra

Find if there is any subarray with sum equal to 0

Find factorial of a large number

find maximum product subarray

Find longest consecutive subsequence

Given an array of size n and a number k, find all elements that appear more than

Maximum profit by buying and selling a share at most twice

Find whether an array is a subset of another array

Find the triplet that sum to a given value

Trapping Rain water problem

Chocolate Distribution problem

[Smallest Subarray with sum greater than a given value](#)
[Three way partitioning of an array around a given value](#)
[Minimum swaps required bring elements less equal K together](#)
[Minimum no. of operations required to make an array palindrome](#)
[Median of 2 sorted arrays of equal size](#)
[Median of 2 sorted arrays of different size](#)

[Spiral traversal on a Matrix](#)
[Search an element in a matrix](#)
[Find median in a row wise sorted matrix](#)
[Find row with maximum no. of 1's](#)
[Print elements in sorted order using row-column wise sorted matrix](#)
[Maximum size rectangle](#)
[Find a specific pair in matrix](#)
[Rotate matrix by 90 degrees](#)
[Kth smallest element in a row-column wise sorted matrix](#)
[Common elements in all rows of a given matrix](#)

[Reverse a String](#)
[Check whether a String is Palindrome or not](#)
[Find Duplicate characters in a string](#)
Why strings are immutable in Java?
[Write a Code to check whether one string is a rotation of another](#)
[Write a Program to check whether a string is a valid shuffle of two strings or](#)
[Count and Say problem](#)
[Write a program to find the longest Palindrome in a string.\[Longest palindrom](#)
[Find Longest Recurring Subsequence in String](#)
[Print all Subsequences of a string.](#)
[Print all the permutations of the given string](#)
[Split the Binary string into two substring with equal 0's and 1's](#)
[Word Wrap Problem \[VERY IMP\].](#)
[EDIT Distance \[Very Imp\]](#)
[Find next greater number with same set of digits. \[Very Very IMP\]](#)

[Balanced Parenthesis problem.\[Imp\]](#)

[Word break Problem\[Very Imp\]](#)

[Rabin Karp Algo](#)

[KMP Algo](#)

[Convert a Sentence into its equivalent mobile numeric keypad sequence.](#)

[Minimum number of bracket reversals needed to make an expression balanced](#)

[Count All Palindromic Subsequence in a given String.](#)

[Count of number of given string in 2D character array](#)

[Search a Word in a 2D Grid of characters.](#)

[Boyer Moore Algorithm for Pattern Searching.](#)

[Converting Roman Numerals to Decimal](#)

[Longest Common Prefix](#)

[Number of flips to make binary string alternate](#)

[Find the first repeated word in string.](#)

[Minimum number of swaps for bracket balancing.](#)

[Find the longest common subsequence between two strings.](#)

[Program to generate all possible valid IP addresses from given string.](#)

[Write a program to find the smallest window that contains all characters of s](#)

[Rearrange characters in a string such that no two adjacent are same](#)

[Minimum characters to be added at front to make string palindrome](#)

[Given a sequence of words, print all anagrams together](#)

[Find the smallest window in a string containing all characters of another string](#)

[Recursively remove all adjacent duplicates](#)

[String matching where one string contains wildcard characters](#)

[Function to find Number of customers who could not get a computer](#)

[Transform One String to Another using Minimum Number of Given Operations](#)

[Check if two given strings are isomorphic to each other](#)

[Recursively print all sentences that can be formed from list of word lists](#)

[Find first and last positions of an element in a sorted array](#)

[Find a Fixed Point \(Value equal to index\) in a given array](#)

[Search in a rotated sorted array](#)

[square root of an integer](#)

[Maximum and minimum of an array using minimum number of comparisons](#)

[Optimum location of point to minimize total distance](#)
[Find the repeating and the missing](#)
[find majority element](#)
[Searching in an array where adjacent differ by at most k](#)
[find a pair with a given difference](#)
[find four elements that sum to a given value](#)
[maximum sum such that no 2 elements are adjacent](#)
[Count triplet with sum smaller than a given value](#)
[merge 2 sorted arrays](#)
[print all subarrays with 0 sum](#)
[Product array Puzzle](#)
[Sort array according to count of set bits](#)
[minimum no. of swaps required to sort the array](#)
[Bishu and Soldiers](#)
[Rasta and Kheshtak](#)
[Kth smallest number again](#)
[Find pivot element in a sorted array](#)
[K-th Element of Two Sorted Arrays](#)
[Aggressive cows](#)
[Book Allocation Problem](#)
[EKOSPOJ:](#)
[Job Scheduling Algo](#)
[Missing Number in AP](#)
[Smallest number with atleastn trailing zeroes infactorial](#)
[Painters Partition Problem:](#)
[ROTI-Prata SPOJ](#)
[DoubleHelix SPOJ](#)
[Subset Sums](#)
[Findthe inversion count](#)
[Implement Merge-sort in-place](#)
[Partitioning and Sorting Arrays with Many Repeated Entries](#)

[Write a Program to reverse the Linked List. \(Both Iterative and recursive\)](#)
[Reverse a Linked List in group of Given Size. \[Very Imp\]](#)

[Write a program to Detect loop in a linked list.](#)
[Write a program to Delete loop in a linked list.](#)
[Find the starting point of the loop.](#)
[Remove Duplicates in a sorted Linked List.](#)
[Remove Duplicates in a Un-sorted Linked List.](#)
[Write a Program to Move the last element to Front in a Linked List.](#)
[Add "1" to a number represented as a Linked List.](#)
[Add two numbers represented by linked lists.](#)
[Intersection of two Sorted Linked List.](#)
[Intersection Point of two Linked Lists.](#)
[Merge Sort For Linked lists.\[Very Important\]](#)
[Quicksort for Linked Lists.\[Very Important\]](#)
[Find the middle Element of a linked list.](#)
[Check if a linked list is a circular linked list.](#)
[Split a Circular linked list into two halves.](#)
[Write a Program to check whether the Singly Linked list is a palindrome or n](#)
[Deletion from a Circular Linked List.](#)
[Reverse a Doubly Linked list.](#)
[Find pairs with a given sum in a DLL.](#)
[Count triplets in a sorted DLL whose sum is equal to given value "X".](#)
[Sort a "k"sorted Doubly Linked list.\[Very IMP\]](#)
[Rotate DoublyLinked list by N nodes.](#)
[Rotate a Doubly Linked list in group of Given Size.\[Very IMP\]](#)
[Can we reverse a linked list in less than \$O\(n\)\$?](#)
[Why Quicksort is preferred for. Arrays and Merge Sort for LinkedLists ?](#)
[Flatten a Linked List](#)
[Sort a LL of 0's, 1's and 2's](#)
[Clone a linked list with next and random pointer](#)
[Merge K sorted Linked list](#)
[Multiply 2 no. represented by LL](#)
[Delete nodes which have a greater value on right side](#)
[Segregate even and odd nodes in a Linked List](#)
[Program for n'th node from the end of a Linked List](#)
[Find the first non-repeating character from a stream of characters](#)

[level order traversal](#)

[Reverse Level Order traversal](#)

[Height of a tree](#)

[Diameter of a tree](#)

[Mirror of a tree](#)

[Inorder Traversal of a tree both using recursion and Iteration](#)

[Preorder Traversal of a tree both using recursion and Iteration](#)

[Postorder Traversal of a tree both using recursion and Iteration](#)

[Left View of a tree](#)

[Right View of Tree](#)

[Top View of a tree](#)

[Bottom View of a tree](#)

[Zig-Zag traversal of a binary tree](#)

[Check if a tree is balanced or not](#)

[Diagnol Traversal of a Binary tree](#)

[Boundary traversal of a Binary tree](#)

[Construct Binary Tree from String with Bracket Representation](#)

[Convert Binary tree into Doubly Linked List](#)

[Convert Binary tree into Sum tree](#)

[Construct Binary tree from Inorder and preorder traversal](#)

[Find minimum swaps required to convert a Binary tree into BST](#)

[Check if Binary tree is Sum tree or not](#)

[Check if all leaf nodes are at same level or not](#)

[Check if a Binary Tree contains duplicate subtrees of size 2 or more \[IMP \]](#)

[Check if 2 trees are mirror or not](#)

[Sum of Nodes on the Longest path from root to leaf node](#)

[Check if given graph is tree or not. \[IMP \]](#)

[Find Largest subtree sum in a tree](#)

[Maximum Sum of nodes in Binary tree such that no two are adjacent](#)

[Print all "K" Sum paths in a Binary tree](#)

[Find LCA in a Binary tree](#)

[Find distance between 2 nodes in a Binary tree](#)

[Kth Ancestor of node in a Binary tree](#)

[Find all Duplicate subtrees in a Binary tree \[IMP \]](#)
[Tree Isomorphism Problem](#)

[Find a value in a BST](#)

[Deletion of a node in a BST](#)

[Find min and max value in a BST](#)

[Find inorder successor and inorder predecessor in a BST](#)

[Check if a tree is a BST or not](#)

[Populate Inorder successor of all nodes](#)

[Find LCA of 2 nodes in a BST](#)

[Construct BST from preorder traversal](#)

[Convert Binary tree into BST](#)

[Convert a normal BST into a Balanced BST](#)

[Merge two BST \[V.V.V>IMP \]](#)

[Find Kth largest element in a BST](#)

[Find Kth smallest element in a BST](#)

[Count pairs from 2 BST whose sum is equal to given value "X"](#)

[Find the median of BST in O\(n\) time and O\(1\) space](#)

[Count BST nodes that lie in a given range](#)

[Replace every element with the least greater element on its right](#)

[Given "n" appointments, find the conflicting appointments](#)

[Check preorder is valid or not](#)

[Check whether BST contains Dead end](#)

[Largest BST in a Binary Tree \[V.V.V.V.V IMP \]](#)

[Flatten BST to sorted list](#)

[Activity Selection Problem](#)

[Job Sequencing Problem](#)

[Huffman Coding](#)

[Water Connection Problem](#)

[Fractional Knapsack Problem](#)

[Greedy Algorithm to find Minimum number of Coins](#)

[Maximum trains for which stoppage can be provided](#)

[Minimum Platforms Problem](#)

[Buy Maximum Stocks if i stocks can be bought on i-th day](#)

[Find the minimum and maximum amount to buy all N candies](#)

[Minimize Cash Flow among a given set of friends who have borrowed money](#)

[Minimum Cost to cut a board into squares](#)

[Check if it is possible to survive on Island](#)

[Find maximum meetings in one room](#)

[Maximum product subset of an array](#)

[Maximize array sum after K negations](#)

[Maximize the sum of \$arr\[i\]*i\$](#)

[Maximum sum of absolute difference of an array](#)

[Maximize sum of consecutive differences in a circular array](#)

[Minimum sum of absolute difference of pairs of two arrays](#)

[Program for Shortest Job First \(or SJF\) CPU Scheduling](#)

[Program for Least Recently Used \(LRU\) Page Replacement algorithm](#)

[Smallest subset with sum greater than all other elements](#)

[Chocolate Distribution Problem](#)

[DEFKIN -Defense of a Kingdom](#)

[DIEHARD -DIE HARD](#)

[GERGOVIA -Wine trading in Gergovia](#)

[Picking Up Chicks](#)

[CHOCOLA –Chocolate](#)

[ARRANGE -Arranging Amplifiers](#)

[K Centers Problem](#)

[Minimum Cost of ropes](#)

[Find smallest number with given number of digits and sum of digits](#)

[Rearrange characters in a string such that no two adjacent are same](#)

[Find maximum sum possible equal sum of three stacks](#)

[Rat in a maze Problem](#)

[Printing all solutions in N-Queen Problem](#)

[Word Break Problem using Backtracking](#)

[Remove Invalid Parentheses](#)

[Sudoku Solver](#)

[m Coloring Problem](#)

[Print all palindromic partitions of a string](#)

[Subset Sum Problem](#)

[The Knight's tour problem](#)

[Tug of War](#)

[Find shortest safe route in a path with landmines](#)

[Combinational Sum](#)

[Find Maximum number possible by doing at-most K swaps](#)

[Print all permutations of a string](#)

[Find if there is a path of more than k length from a source](#)

[Longest Possible Route in a Matrix with Hurdles](#)

[Print all possible paths from top left to bottom right of a mXn matrix](#)

[Partition of a set into K subsets with equal sum](#)

[Find the K-th Permutation Sequence of first N natural numbers](#)

[Implement Stack from Scratch](#)

[Implement Queue from Scratch](#)

[Implement 2 stack in an array](#)

[find the middle element of a stack](#)

[Implement "N" stacks in an Array](#)

[Check the expression has valid or Balanced parenthesis or not.](#)

[Reverse a String using Stack](#)

[Design a Stack that supports getMin\(\) in O\(1\) time and O\(1\) extra space.](#)

[Find the next Greater element](#)

[The celebrity Problem](#)

[Arithmetic Expression evaluation](#)

[Evaluation of Postfix expression](#)

[Implement a method to insert an element at its bottom without using any o](#)

[Reverse a stack using recursion](#)

[Sort a Stack using recursion](#)

[Merge Overlapping Intervals](#)

[Largest rectangular Area in Histogram](#)
[Length of the Longest Valid Substring](#)
[Expression contains redundant bracket or not](#)
[Implement Stack using Queue](#)
[Implement Stack using Deque](#)
[Stack Permutations \(Check if an array is stack permutation of other\)](#)
[Implement Queue using Stack](#)
[Implement "n" queue in an array](#)
[Implement a Circular queue](#)
[LRU Cache Implementation](#)
[Reverse a Queue using recursion](#)
[Reverse the first "K" elements of a queue](#)
[Interleave the first half of the queue with second half](#)
[Find the first circular tour that visits all Petrol Pumps](#)
[Minimum time required to rot all oranges](#)
[Distance of nearest cell having 1 in a binary matrix](#)
[First negative integer in every window of size "k"](#)
[Check if all levels of two trees are anagrams or not.](#)
[Sum of minimum and maximum elements of all subarrays of size "k".](#)
[Minimum sum of squares of character counts in a given string after removing](#)
[Queue based approach or first non-repeating character in a stream.](#)
[Next Smaller Element](#)

[Implement a Maxheap/MinHeap using arrays and recursion.](#)
[Sort an Array using heap. \(HeapSort\)](#)
[Maximum of all subarrays of size k.](#)
["k" largest element in an array](#)
[Kth smallest and largest element in an unsorted array](#)
[Merge "K" sorted arrays. \[IMP \]](#)
[Merge 2 Binary Max Heaps](#)
[Kth largest sum continuous subarrays](#)
[Leetcode- reorganize strings](#)
[Merge "K" Sorted Linked Lists \[V.IMP\]](#)

[Smallest range in “K” Lists](#)

[Median in a stream of Integers](#)

[Check if a Binary Tree is Heap](#)

[Connect “n” ropes with minimum cost](#)

[Convert BST to Min Heap](#)

[Convert min heap to max heap](#)

[Rearrange characters in a string such that no two adjacent are same.](#)

[Minimum sum of two numbers formed from digits of an array](#)

[Create a Graph, print it](#)

[Implement BFS algorithm](#)

[Implement DFS Algo](#)

[Detect Cycle in Directed Graph using BFS/DFS Algo](#)

[Detect Cycle in UnDirected Graph using BFS/DFS Algo](#)

[Search in a Maze](#)

[Minimum Step by Knight](#)

[flood fill algo](#)

[Clone a graph](#)

[Making wired Connections](#)

[word Ladder](#)

[Dijkstra algo](#)

[Implement Topological Sort](#)

[Minimum time taken by each job to be completed given by a Directed Acycli](#)

[Find whether it is possible to finish all tasks or not from given dependencies](#)

[Find the no. of Isalnds](#)

[Given a sorted Dictionary of an Alien Language, find order of characters](#)

[Implement Kruksal’sAlgorithm](#)

[Implement Prim’s Algorithm](#)

[Total no. of Spanning tree in a graph](#)

[Implement Bellman Ford Algorithm](#)

[Implement Floyd warshallAlgorithm](#)

[Travelling Salesman Problem](#)

[Graph ColouringProblem](#)

[Snake and Ladders Problem](#)

[Find bridge in a graph](#)

[Count Strongly connected Components\(Kosaraju Algo\)](#)

[Check whether a graph is Bipartite or Not](#)

[Detect Negative cycle in a graph](#)

[Longest path in a Directed Acyclic Graph](#)

[Journey to the Moon](#)

[Cheapest Flights Within K Stops](#)

[Oliver and the Game](#)

[Water Jug problem using BFS](#)

[Water Jug problem using BFS](#)

[Find if there is a path of more than length from a source](#)

[M-Colouring Problem](#)

[Minimum edges to reverse to make path from source to destination](#)

[Paths to travel each node using each edge\(Seven Bridges\)](#)

[Vertex Cover Problem](#)

[Chinese Postman or Route Inspection](#)

[Number of Triangles in a Directed and Undirected Graph](#)

[Minimise the cashflow among a given set of friends who have borrowed money](#)

[Two Clique Problem](#)

[Construct a trie from scratch](#)

[Find shortest unique prefix for every word in a given list](#)

[Word Break Problem | \(Trie solution\)](#)

[Given a sequence of words, print all anagrams together](#)

[Implement a Phone Directory](#)

[Print unique rows in a given boolean matrix](#)

[Coin Change Problem](#)

[Knapsack Problem](#)

[Binomial Coefficient Problem](#)

[Permutation Coefficient Problem](#)

[Program for nth Catalan Number](#)

[Matrix Chain Multiplication](#)

[Edit Distance](#)

[Subset Sum Problem](#)

[Friends Pairing Problem](#)

[Gold Mine Problem](#)

[Assembly Line Scheduling Problem](#)

[Painting the Fence problem](#)

[Maximize The Cut Segments](#)

[Longest Common Subsequence](#)

[Longest Repeated Subsequence](#)

[Longest Increasing Subsequence](#)

[Space Optimized Solution of LCS](#)

[LCS \(Longest Common Subsequence\) of three strings](#)

[Maximum Sum Increasing Subsequence](#)

[Count all subsequences having product less than K](#)

[Longest subsequence such that difference between adjacent is one](#)

[Maximum subsequence sum such that no three are consecutive](#)

[Egg Dropping Problem](#)

[Maximum Length Chain of Pairs](#)

[Maximum size square sub-matrix with all 1s](#)

[Maximum sum of pairs with specific difference](#)

[Min Cost Path Problem](#)

[Maximum difference of zeros and ones in binary string](#)

[Minimum number of jumps to reach end](#)

[Minimum cost to fill given weight in a bag](#)

[Minimum removals from array to make \$\max - \min \leq K\$](#)

[Longest Common Substring](#)

[Count number of ways to reach a given score in a game](#)

[Count Balanced Binary Trees of Height h](#)

[Largest Sum Contiguous Subarray \[V > V > V > V IMP\]](#)

[Smallest sum contiguous subarray](#)

[Unbounded Knapsack \(Repetition of items allowed\)](#)

[Word Break Problem](#)

[Largest Independent Set Problem](#)

[Partition problem](#)

[Longest Palindromic Subsequence](#)

[Count All Palindromic Subsequence in a given String](#)

[Longest Palindromic Substring](#)

[Longest alternating subsequence](#)

[Weighted Job Scheduling](#)

[Coin game winner where every player has three choices](#)

[Count Derangements \(Permutation such that no element appears in its original position\)](#)

[Maximum profit by buying and selling a share at most twice \[IMP \]](#)

[Optimal Strategy for a Game](#)

[Optimal Binary Search Tree](#)

[Palindrome Partitioning Problem](#)

[Word Wrap Problem](#)

[Mobile Numeric Keypad Problem \[IMP \]](#)

[Boolean Parenthesization Problem](#)

[Largest rectangular sub-matrix whose sum is 0](#)

[Largest area rectangular sub-matrix with equal number of 1's and 0's \[IMP \]](#)

[Maximum sum rectangle in a 2D matrix](#)

[Maximum profit by buying and selling a share at most k times](#)

[Find if a string is interleaved of two other strings](#)

[Maximum Length of Pair Chain](#)

[Count set bits in an integer](#)

[Find the two non-repeating elements in an array of repeating elements](#)

[Count number of bits to be flipped to convert A to B](#)

[Count total set bits in all numbers from 1 to n](#)

[Program to find whether a no is power of two](#)

[Find position of the only set bit](#)

[Copy set bits in a range](#)

[Divide two integers without using multiplication, division and mod operator](#)

[Calculate square of a number without using *, / and pow\(\)](#)

[Power Set](#)

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