

**Topic:**

**Array**

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## 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 any sorting algo](#)

[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](#)

**Done [yes or no]**

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[find common elements In 3 sorted arrays](#)

[Rearrange the array in alternating positive and negative items with  \$O\(1\)\$  extra space](#)

[Find if there is any subarray with sum equal to 0](#)

[Find factorial of a large number](#)

[find maximum product subarray](#)

[Find longest coinsecutive subsequence](#)

[Given an array of size  \$n\$  and a number  \$k\$ , find all elements that appear more than " \$n/k\$ " times.](#)

[Maximum profit by buying and selling a share atmost 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](#)

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[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 not](#)

[Count and Say problem](#)

[Write a program to find the longest Palindrome in a string.\[ Longest palindromic Substring\]](#)

[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 \[Very Imp\]](#)



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[illegible]

[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 string itself.](#)

[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](#)

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[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 Operation](#)

[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](#)

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## Searching & Sorting

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[illegible]



[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](#)

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[illegible]

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 not.

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]

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[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](#)

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[illegible]

[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](#)

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[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](#)

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## Binary Search Trees

## Binary Search Trees

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## Binary Search Trees

## Binary Search Trees

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[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 from each other](#)

[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](#)



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[Maximize the sum of  \$\text{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](#)

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[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](#)

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[illegible]



[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 other data structure.](#)

[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](#)

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[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 “k” characters.](#)

[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 \[V.IMP\]](#)

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[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](#)

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[illegible]

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

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

[Find the no. of Islands](#)

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

[Implement Kruksal's Algorithm](#)

[Implement Prim's Algorithm](#)

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

[Implement Bellman Ford Algorithm](#)

[Implement Floyd warshall Algorithm](#)

[Travelling Salesman Problem](#)

[Graph Colouring Problem](#)

[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](#)

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| <b>Dynamic Programming</b> |
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[M-ColouringProblem](#)

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

[Paths to travel each nodes 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 from each other](#)

[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 ChangeProblem](#)

[Knapsack Problem](#)

[Binomial CoefficientProblem](#)

[Permutation CoefficientProblem](#)

[Program for nth Catalan Number](#)

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[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](#)



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

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

[Optimal Strategy for a Game](#)

[Optimal Binary Search Tree](#)

[Palindrome Partitioning Problem](#)

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## Dynamic Programming

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## Bit Manipulation

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## Bit Manipulation

[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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