Topic:
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Matrix

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 sorti
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 space
Find if there is any subarray with sum equal to 0
Find factorial of a large number
find maximum product subarray
Longest Consecutive Subsequence
Given an array of size n and a number k, fin all elements that appear more than " n/k "
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 matriix
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

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Maximum size rectangle

Find a specific pair in matrix

Rotate matrix by 90 degrees

Kth smallest element in a row-cpumn 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 Subst

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 tofind the smallest window that contains all characters of string itsel

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

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LinkedList

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
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]

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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]

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

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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 SequencingProblem
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 ea
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

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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 intoK 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 other data

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 Implementationa

Reverse a Queue using recursion

Reverse the first "K" elements of a queue

Interleave the first half of the queue with second half

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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" char

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 Acyclic Graph

Find whether it is possible to finish all tasks or not from given dependencies

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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