

ARRAYS-

Find pair with given sum in the array

Check if subarray with 0 sum is exists or not

Print all sub-arrays with 0 sum

Sort binary array in linear time

Find a duplicate element in a limited range array

Find largest sub-array formed by consecutive integers

Find maximum length sub-array having given sum

Find maximum length sub-array having equal number of 0's and 1's

Sort an array containing 0's, 1's and 2's (Dutch national flag problem)

Inplace merge two sorted arrays

Merge two arrays by satisfying given constraints

Find index of 0 to replaced to get maximum length sequence of continuous ones

Find maximum product of two integers in an array

Shuffle a given array of elements (Fisher–Yates shuffle)

Rearrange the array with alternate high and low elements

Find equilibrium index of an array

Find majority element in an array (Boyer–Moore majority vote algorithm)

Move all zeros present in the array to the end

Replace each element of array with product of every other element without using / operator

Find Longest Bitonic Subarray in an array

Find maximum difference between two elements in the array by satisfying given constraints

Maximum subarray problem (Kadane's algorithm)

Print continuous subarray with maximum sum

Maximum Sum Circular Subarray

Find all distinct combinations of given length

Find all distinct combinations of given length with repetition allowed

Find maximum sequence of continuous 1's formed by replacing at-most k zeroes by ones

Find minimum sum subarray of given size k

Find subarray having given sum in given array of integers

Find the length of smallest subarray whose sum of elements is greater than the given number

Find largest number possible from set of given numbers

Find the smallest window in array sorting which will make the entire array sorted

Find maximum sum path involving elements of given arrays

Maximum profit earned by buying and selling shares any number of times

Trapping Rain Water within given set of bars

Longest Increasing Subsequence

Longest Decreasing Subsequence Problem

Find maximum product subarray in a given array

Find maximum sum of subsequence with no adjacent elements

Find minimum platforms needed in the station so to avoid any delay in arrival of any train

Decode the array constructed from another array

Sort an array using one swap

Find Triplet with given sum in an array

Length of longest continuous sequence with same sum in given binary arrays

Rearrange array such that $A[A[i]]$ is set to i for every element $A[i]$

Reverse every consecutive m elements of the given subarray

Maximum Product Subset Problem

Find pairs with given difference k in the array

Find pairs with given difference k in the array | Constant space solution

4 sum problem | Quadruplets with given sum

Print all quadruplets with given sum | 4-sum problem extended

Find odd occurring element in an array in single traversal

Find two odd occurring element in an array without using any extra space

Quickselect Algorithm

Print all Triplets that forms Arithmetic Progression

Print all triplets that forms Geometric Progression

Print all combination of numbers from 1 to n having sum n

Replace each element of the array by its corresponding rank in the array

Print all Triplets in an array with sum less than or equal to given number

Group elements of an array based on their first occurrence

Find minimum difference between index of two given elements present in the array

Find maximum absolute difference between sum of two non-overlapping sub-arrays

Find all Symmetric Pairs in an Array of Pairs

Partition an array into two sub-arrays with the same sum

Find count of distinct elements in every sub-array of size k

Find two numbers with maximum sum formed by array digits

Print all sub-arrays of an array having distinct elements

Find a Triplet having Maximum Product in an Array

Find ways to calculate a target from elements of specified array

Find Minimum Index of Repeating Element in an Array

Generate Random Input from an Array according to given Probabilities

Find pair in an array having minimum absolute sum

Find Index of Maximum Occurring Element with Equal Probability

Check if an Array is Formed by Consecutive Integers

Find two non-overlapping pairs having same sum in an array

Find Minimum Product among all Combinations of Triplets in an Array

Replace every element of an array with the least greater element on its right

Find all odd occurring elements in an array having limited range of elements

Add elements of two arrays into a new array

Count the distinct absolute values in the sorted array

Print all combinations of positive integers in increasing order that sum to a given number

Find all distinct combinations of given length - Part 2

Find subarrays with given sum in an array

Find the surpasser count for each element of an array

Find maximum length sequence of continuous ones (Using Sliding Window)

Find maximum length sequence of continuous ones

Merging Overlapping Intervals

Activity Selection Problem

Job Sequencing Problem with Deadlines

Introduction to Priority Queues using Binary Heaps

Min Heap and Max Heap Implementation in C++

Min Heap and Max Heap Implementation in Java

Heap Sort (Out-of-place and In-place implementation in C++ and C)

Check if given array represents min heap or not

Convert Max Heap to Min Heap in linear time

Find K'th largest element in an array

Sort a K-Sorted Array

Merge M sorted lists of variable length

Find K'th smallest element in an array

Find smallest range with at-least one element from each of the given lists

Merge M sorted lists each containing N elements

Insertion sort | Iterative & Recursive

Selection sort | Iterative & Recursive

Bubble sort | Iterative & Recursive

Merge Sort

Quicksort

Iterative Implementation of Quicksort

Hybrid QuickSort

Quicksort using Dutch National Flag Algorithm

Quick Sort using Hoare's Partitioning scheme

External merge sort

Custom Sort | Sort elements by their frequency and Index

Custom Sort | Sort elements of the array by order of elements defined by the second array

Inversion Count of an array

Segregate positive and negative integers in linear time

Binary Search

Ternary Search vs Binary search

Interpolation search

Exponential search

Find number of rotations in a circularly sorted array

Search an element in a circular sorted array

Find first or last occurrence of a given number in a sorted array

Count occurrences of a number in a sorted array with duplicates

Find smallest missing element from a sorted array

Find Floor and Ceil of a number in a sorted array

Search in a nearly sorted array in $O(\log n)$ time

Find number of 1's in a sorted binary array

Find the peak element in an array

Maximum Sum Subarray using Divide & Conquer

Find Minimum and Maximum element in an array using minimum comparisons

Matrix Chain Multiplication

0-1 Knapsack problem

Maximize value of the expression

Partition problem

Subset sum problem

Minimum Sum Partition problem

Rod Cutting

Coin change-making problem (unlimited supply of coins)

Coin Change Problem (Total number of ways to get the denomination of coins)

Longest alternating subsequence

Combinations of words formed by replacing given numbers with corresponding alphabets

Decode the given sequence to construct minimum number without repeated digits

All combinations of elements satisfying given constraints

Find Missing Term in a Sequence in $\log(n)$ time

Print all distinct Subsets of a given Set

Find Floor and Ceil of a number in a sorted array (Recursive solution)

Set both elements of a binary array to 0 in single line

K-Partition Problem | Printing all Partitions

3 Partition Problem

3-partition problem extended | Print all partitions

Iterative Merge Sort Algorithm (Bottom-up Merge Sort)

Find two duplicate elements in an limited range array (using XOR)

Find missing number and duplicate elements in an array

Find Minimum and Maximum element in an array by doing minimum comparisons

Find Frequency of each element in a sorted array containing duplicates

Difference between Subarray, Subsequence and Subset