**Array**

**Basic Questions:**

1. Create an Array of size 10 of integers. Take input from the user for these 10 elements and print the entire array after that.
2. Check whether n is present in an array of size m or not.

1. Find the minimum and maximum element in an array.
2. Write a program to reverse the array.
3. Write a program to sort the given array.
4. Find the Kth largest and Kth smallest number in an array.
5. Given an number n. Find the number of occurrences of n in the array.
6. Given an array which consists of only 0, 1 and 2. Sort the array without using any sorting algorithm.
7. Find the range of the array. Range means the difference between the maximum and minimum element in the array.
8. Move all the negative elements to one side of the array.

**Intermediate Array Questions:**

1. Find the Union and Intersection of the two sorted arrays.
2. Write a program to cyclically rotate an array by one.
3. You are given a list of n-1 integers and these integers are in the range of 1 to n. There are no duplicates in the list. One of the integers is missing in the list. Write an efficient code to find the missing integer.
4. Find all pairs on integer array whose sum is equal to given number.
5. Find duplicates in an array.
6. Find common elements in three sorted arrays.
7. Find the first repeating element in an array of integers.
8. Find the first non-repeating element in a given array of integers.
9. Given an array with all distinct elements, find the largest three

elements. Expected time complexity is O(n) and extra space is O(1).

1. **F**ind Largest sum contiguous Subarray.[Very Important].
2. Given an array of size n and a number k, fin all elements that appear more than n/k times.
3. Find the two repetitive elements in a given array.
4. Find a triplet that sum to a given value.
5. Find the minimum element in a rotated and sorted array.
6. GCD of given index ranges in an array.
7. Create an N\*M matrix and take input from the user to populate it and then print the matrix.
8. Find the row with maximum number of 1’s.
9. Find whether an array is a subset of another array.
10. Sort an array with Quicksort.

**Difficult Unattempted Array Questions:**

1. Rearrange the array in alternating positive and negative items with O(1) extra space.
2. Find if there is any sub-array with sum equal to zero.
3. Find the factorial of a large number.
4. Find Maximum Product Sub-array.
5. Find longest consecutive subsequence.
6. Maximum profit by buying and selling a share at most twice.
7. Minimize the maximum difference between the heights. [ADOBE]
8. Minimum number of Jumps to reach end.
9. Find the median in a row wise sorted matrix.
10. **P**rint the matrix in a Spiral manner. [Very IMP ]
11. **I**mplement two Stacks in an array.