Arrays

1. Sorting and Searching Algorithms
    - Bubble Sort
    - Selection Sort
    - Merge Sort
    - Quick Sort
    - Insertion Sort
    - Linear search
    - Binary Search
2. Find Duplicate element in array.
3. Find Unique element in array.
4. Find Majority element in array (element whose occurrence is more than n/2 or n/k times)
5. Find Peak Element in array (element which is bigger than its neighbour elements is called peak element.)
6. Sort array of 0 and 1 without using sorting techniques.
7. Sort array of 0 , 1 and 2 without using sorting techniques.
8. Count pairs in array whose sum is equal to the given sum (pair sum problem).
9. Kadane's Algorithm (largest subarray sum).
10. Move all negative elements to one side.
11. Move all 0 to end in array.

12. Swap Alternate elements in array.
13. Cyclic Rotate array by one.
14. Cyclic Rotate array by d.
15. Minimum Number of swaps required to sort the array.
16. Find if array is subset of another array.
17. Median of two sorted arrays of equal size.
18. Count number of subarrays whose sum equal to one.
19. Find the triplet that sum to a given value.
20. Swap first half of array with second half.
21. Best time to buy and sell stock.
22. Count frequencies of each element in array.
23. Second highest element in array without sorting.
24. Second smallest element in array without sorting.
25. Maximum element in array.
26. Minimum element in array.
27. K^{th} max and K^{th} min element in array.
28. Reverse array.
29. Minimum number of jumps required to reach end of the array.
30. Find Union of two Sorted arrays.
31. Find Intersection of two Sorted arrays.
32. Equilibrium point in array.
33. Sum of two 1d arrays.
34. Print all prime numbers in array.
35. Find missing number in array.

36. Find maximum product subarray.

37. Find frequency of integer in array.