**Problem Set 4: More on Arrays**

1. **Given an array which consists of only 0, 1 and 2. Sort the array without using any algorithm**
2. **Find the “Kth” max and min element of an array**
3. **Move all the negative elements to one side of the array**
4. **Find the Union and Intersection of the two sorted arrays.**
5. **Find Largest sum contiguous Subarray**
6. **Minimize the maximum difference between heights**
7. **Minimum no. of Jumps to reach the end of an array**
8. **Find duplicate in an array of N+1 Integers**
9. **Merge 2 sorted arrays without using extra space**
10. **Kadane’s Algorithm**
11. **Merge Intervals**
12. **Count Inversion**
13. **Best time to buy and Sell stock**
14. **Find all pairs on integer array whose sum is equal to given number**
15. **Find if there is any subarray with sum equal to 0**
16. **Find factorial of a Large Number**
17. **Find common elements In 3 sorted arrays**
18. **Rearrange the array in alternating positive and negative items with O(1) extra space**
19. **Given an array of size n and a number k, find all elements that appear more than ” n/k ” times.**
20. **Maximum profit by buying and selling a share atmost twice**
21. **Next Permutation**
22. **Find longest consecutive subsequence**
23. **Trapping Rain water problem**
24. **Chocolate Distribution problem**
25. **Smallest Subarray with sum greater than a given value**
26. **Three way partitioning of an array around a given value**
27. **Minimum no. of operations required to make an array palindrome**
28. **Median of 2 sorted arrays of equal size**
29. **Median of 2 sorted arrays of different size**