**Problem statement 1**

Write a function solution that, given an integer N, returns the maximum possible value obtained by inserting one '5' digit inside the decimal representation of integer N.

Examples:

1. Given N = 268, the function should return 5268.

2. Given N = 670, the function should return 6750.

3. Given N = 0, the function should return 50.

4. Given N = −999, the function should return −5999.

Assume that:

N is an integer within the range [−8,000..8,000].  
In your solution, focus on correctness. The performance of your solution will not be the focus of the assessment.

**Problem statement 2**

Given an input array [5, 3, 50, 8] .

Find the maximum possible number by concatenating all array values.

**Problem statement 3**

Given a set of arrival and departure times for trains, what is the min number of platforms needed to ensure that no trains have to wait for platforms.

arrival[] = {1:00, 1:40, 1:50, 2:00, 2:15, 4:00}

departure[] = {1:10, 3:00, 2:20, 2:30, 3:15, 6:00}  No. of platforms required in above scenario = 4

num\_of\_avail\_platforms = 4

**Problem statement 4**

If two linked list are sorted and you want to create a third list which is combination of first two linked list and sorted

**Problem statement 5**

Find 2nd highest number from an array.

**Problem statement 6**

Java Program To Find All Pairs Of Elements In An Array Whose Sum Is Equal To A Given Number:

Hint : Write your method like

static void findThePairs(int inputArray[], int inputNumber)

{

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}

& call it like :

*findThePairs*(new int[] {4, 6, 5, -10, 8, 5, 20}, 10);

Then O/P: Pairs of elements whose sum is 10 are :

4 + 6 = 10

5 + 5 = 10

-10 + 20 = 10

**Problem statement 7**

Check for String anagram

**Problem statement 8**

Code to find Duplicate in Array  
 Hint : if int[] array = {​​​ 1, 1, 2, 3, 4, 5, 6, 7, 8, 8 }​​​;  
 O/P : Duplicate element found : 1 but 2 times  
 Duplicate element found : 8 but 2 times

**Problem statement 9**

Given an array of random numbers, Push all the zero’s of a given array to the end of the array. For example, if the given arrays is {​​​1, 9, 8, 4, 0, 0, 2, 7, 0, 6, 0}​​​, it should be changed to {​​​1, 9, 8, 4, 2, 7, 6, 0, 0, 0, 0}​​​. The order of all other elements should be same.  
Expected time complexity is O(n) and extra space is O(1).

**Problem statement 10**

Reverse a Linked List in groups of given size