**Problems**

1.write a c# program  to return highest occurred character in a String.

2. write a c# program to print first non repeated character from String

3. Given an array of positive and negative numbers, arrange them in an alternate fashion such that every positive number is followed by negative and vice-versa maintaining the order of appearance.

4. Count the number of "xx" in the given string. We'll say that overlapping is allowed, so "xxx" contains 2 "xx".

countXX("abcxx") ? 1

countXX("xxx") ? 2

countXX("xxxx") ? 3

5. If Give an integer N . Write a program to obtain the sum of the first and last digit of this number.

6. Number Mirror : Write a program that accepts a number and outputs the reverse of the number.

### 7. Grade the steel

A certain grade of steel is graded according to the following conditions.

  Hardness must be greater than 50.

  Carbon content must be less than 0.7.

  Tensile strength must be greater than 5600.

The grades are as follows:

  Grade is 10 if all three conditions are met.

  Grade is 9 if conditions (i) and (ii) are met.

  Grade is 8 if conditions (ii) and (iii) are met.

  Grade is 7 if conditions (i) and (iii) are met.

  Garde is 6 if only one condition is met.

  Grade is 5 if none of three conditions are met.

Write a program, if the user gives values of hardness, carbon content and tensile strength of the steel under consideration and display the grade of the steel.

**Input**

The first line contains an integer **T**, total number of testcases. Then follow **T** lines, each line contains three numbers **hardness**, **carbon content** and **tensile strength** of the steel.

**Output**

Print Grade of the steel depending on Conditions.

**Constraints**

* 1 **≤** **T** **≤** 1000
* 1**≤** **hardness, carbon content, tensile strength** **≤** 10000

**Example**

**Input**

3

53 0.6 5602

45 0 4500

0 0 0

**Output**

10

6

6

8. Write a C# code to find the missing number in integer array of 1 to 100?

9. How to find all pairs on integer array whose sum is equal to given number?

10. Find length of the longest String in ArrayList

The C# and SQL Assessments would be on **Friday** and  timing would be announced later. All the best . Keep practicing.