URI Online Judge | 1192

**Paula's Mathematic Game**

By Neilor Tonin, URI https://urionlinejudge.r.worldssl.net/gallery/images/flags/br.gif Brazil

**Timelimit: 2**

Paula loves math. Her main hobby is to inventing games or activities to play with her friends. Obviously, not all of them are so passionated about mathematics and have a lot of difficulty to solve the games offered by her. Now Paula has invented a small hobby that involves three characters: a numerical digit, one letter and one numeric digit.

If the letter is uppercase, you need to subtract the first digit of the second one. If the letter is lowercase, both digts must be added. If the DIGITS are the same, the product between these two digits must be presented. She asked his friend Marcelo, who is good at programming, to create a program that print the solution for each sequence created by Paula.

**Input**

The input contains many test cases. The first line of each input contains a single integer N, indicating the number of following test cases. Each test case is a sequence of three chars created by Paula. This sequence contains in the first position a character between '0' and '9', a uppercase or lowercase character and another character between '0' and '9'.

**Output**

For each test case, one line must be printed with an integer, representing the solution for each sequence created by Paula

| **Sample Input** | **Sample Output** |
| --- | --- |
| 5 4A5 3A3 4f2 2G4 7Z1 | 1 9 6 2 -6 |

<https://www.urionlinejudge.com.br/judge/es/problems/view/1192>

import java.util.Scanner;

import java.io.\*;

/\*\*

\*

\* @author Administrador

\*/

public class Main {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws IOException{

// TODO code application logic here

Scanner tec = new Scanner(System.in);

int t;

t = Integer.parseInt(tec.nextLine());

while(t-- > 0) {

String S = tec.nextLine();

Character a = S.charAt(0);

Character b = S.charAt(1);

Character c = S.charAt(2);

int res = 0;

if(a == c) {

res = Integer.parseInt(c.toString()) \* Integer.parseInt(a.toString());

}else {

if(Character.isUpperCase(b)){

res = Integer.parseInt(c.toString()) - Integer.parseInt(a.toString());

} else {

res = Integer.parseInt(c.toString()) + Integer.parseInt(a.toString());

}

}

System.out.println(res);

}

}

}