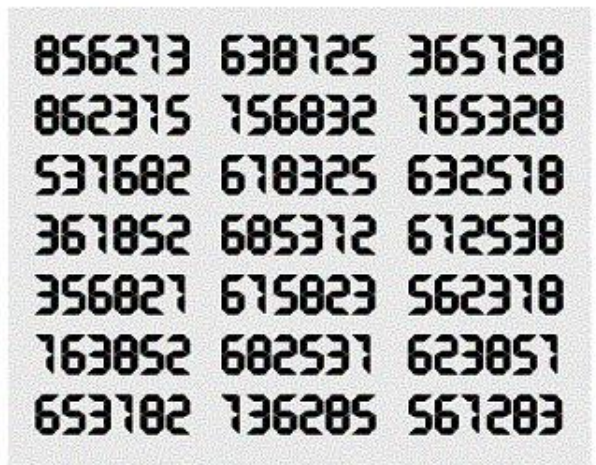


## 12065 Permutation Primes

Permutations of a sequence of decimal digits have an interesting property. Any two permutations of a sequence of digits have a difference, which is divisible by 9. Quite interesting, isn't it? For example:

$$|458967 - 456879| = 2088 = 9 * 232$$

We won't ask for the proof today (as it is very easy) but we will focus towards a different aspect of this property. There are some numbers whose difference with one (or more) of its permutation is of the form  $9p$ , where  $p$  is a prime less than 1111111. These numbers are called permutation primes. For example  $92-29=63=9*7$ , where  $7$  is a prime. So  $92$  is a permutation prime. Now you have to write a program that finds out how many permutation primes are there within a specified range.



### Input

First line of input contains an integer  $T$  ( $0 < T < 51$ ) denoting the number of test cases to follow. Then follows  $T$  lines each of which contains two positive integers  $p$  and  $q$ . Both of them are less than  $99999999$ , without any leading zero(s) and  $|p - q| \leq 1000$ .

### Output

There will be one line of output for each test case. At first print 'Case  $i$ : ' (without the quotes) where  $i$  is an integer denoting the  $i$ -th test case starting from one. Then the line will contain an integer  $N$  that denotes the number of permutation primes between  $p$  and  $q$  (inclusive).

### Sample Input

```
2
1 10
1 20
```

### Sample Output

```
Case 1: 0
Case 2: 5
```