# Problem: Find Digits

Given an integer, , traverse its digits  $(_{1,2},...,_{n})$  and determine how many digits evenly divide (i.e.: count the number of times divided by each digit  $_{i}$  has a remainder of ). Print the number of evenly divisible digits.

**Note:** Each digit is considered to be unique, so each occurrence of the same evenly divisible digit should be counted (i.e.: for , the answer is ).

# **Input Format**

The first line is an integer, , indicating the number of test cases.

The subsequent lines each contain an integer, .

#### **Constraints**

#### **Output Format**

For every test case, count and print (on a new line) the number of digits in that are able to evenly divide.

# **Sample Input**

2 12 1012

# **Sample Output**

2

#### **Explanation**

The number is broken into two digits, and . When is divided by either of those digits, the calculation's remainder is ; thus, the number of evenly-divisible digits in is .

The number is broken into four digits, , , , and . is evenly divisible by its digits , , and , but it is *not* divisible by as **division by zero is undefined**; thus, our count of evenly divisible digits is .

# Solution

```
void check(long num)
     long number=num, counter=0;
     while(num>0)
             if(num%10!=0)
                   {
                          (number\%(num\%10)==0 ? counter+=1 : counter+=0);
             num=num/10;
  cout < < counter < < endl;
 }
int main()
  {
    int cases;
    long num;
    cin>>cases;
    for(int i=0; i<cases; i++)</pre>
       {
         cin>>num;
         check(num);
   return 0;
  }
```