

Given a string  $s$  and a positive integer  $d$  you have to determine how many permutations of  $s$  are divisible by  $d$ .

## Input

First line of the input contains one integer  $T$  the number of test cases. Each of the test cases is one line containing  $s$  and  $d$  separated by a single space.

## Output

For each test case output contains an integer the number of permutations of  $s$  that are divisible by  $d$ .

## Constraints

- $s$  contains only digits.
- The length of  $s$  is between 1 and 10 inclusive.
- $d$  is a positive integer between 1 and 10000.

## Sample Input

```
3
000 1
1234567890 1
123434 2
```

## Sample Output

```
1
3628800
90
```