

We are given a sequence of  $n$  decimal digits. The sequence needs to be partitioned into one or more contiguous subsequences such that each subsequence, when interpreted as a decimal number, is divisible by a given integer  $m$ .

Find the number of different such partitions modulo  $10^9 + 7$ . When determining if two partitions are different, we only consider the locations of subsequence boundaries rather than the digits themselves, e.g. partitions  $2|22$  and  $22|2$  are considered different.

## Input

The input file contains several test cases, each of them as described below.

The first line contains two integers  $n$  and  $m$  ( $1 \leq n \leq 300000$ ,  $1 \leq m \leq 1000000$ ) — the length of the sequence and the divisor respectively. The second line contains a string consisting of exactly  $n$  digits.

## Output

For each test case, output a single integer — the number of different partitions modulo  $10^9 + 7$  on a line by itself.

## Sample Input

```
4 2
1246
4 7
2015
```

## Sample Output

```
4
0
```