

D. Mask 2

There are long natural number N and the mask in form $a*b$, where a and b are arbitrary decimal digits, and character "*" can be substituted by any number of arbitrary decimal digits (including no digits). How many subsequences you may select from N according to the mask? The length of N is not more than 100000 digits.

Input

The first line of input contains the mask, the second line contains N .

Sample input:

```
2*3
12323432535642564
```

Output

Output contains number of subsequences.

Sample output:

```
8
```