

## 13126 Wildcards

Alice and Bob are playing a game: Alice selects a text  $t$  and a word  $w$ , and then Bob has to say how many times  $w$  occurs in  $t$ . However, after a while, Alice realizes that this version of the game is too boring for Bob and decides to make a modification: in her new version of the game, the wildcard symbol ‘?’ can occur in  $w$  any number of times. Each occurrence of ‘?’ in  $w$  can be matched with any character in  $t$ .

In the new version of the game, for instance, if the text is  $t = \text{banana}$  and the word is  $w = \text{?a?}$ , then  $w$  occurs twice in  $t$ : at position 0 matching “ban” and at position 2 matching “nan”. Notice that matches can overlap.

Can you write a program to help Bob solve this new game?

### Input

The input consists of several test cases, each one defined by two lines. The first line contains the text  $t$  and the second line contains the word  $w$ . The text  $t$  consists of lowercase letters from the English alphabet ( $1 \leq |t| \leq 10^5$ ), and the word  $w$  consists of lowercase letters from the English alphabet and the wildcard character ‘?’ ( $1 \leq |w| \leq 10^5$ ). It is guaranteed that there will be at most  $k$  wildcard characters in  $w$ , where  $0 \leq k \leq \min(|w|, 10^6/|t|)$ .

### Output

For each test case, print a line with one integer denoting the number of times  $w$  appears in  $t$  if each wildcard character matches any character in  $t$ .

### Sample Input

```
banana
?a?
bananas
?a?
abide
a??d
abide
a?d
abracadabra
a?a
acisredis
?b
acisredis
??
icpc
world?finals
```

### Sample Output

```
2
3
1
```

0  
2  
0  
8  
0