

**Time limit:** 1.00 s   **Memory limit:** 512 MB

Given a string and a pattern, your task is to count the number of positions where the pattern occurs in the string.

## Input

The first input line has a string of length  $n$ , and the second input line has a pattern of length  $m$ . Both of them consist of characters a-z.

## Output

Print one integer: the number of occurrences.

## Constraints

- $1 \leq n, m \leq 10^6$

## Example

Input:  
saippuakauppias  
pp

Output:  
2