## Remove The String

Given two strings $X$ and $Y$, your task is find the minimum number of characters to be removed from X in order to obtain a string X ' that does not contain Y as a substring.

## Input

Input contains some test cases. Each test cases contains two lines, First is X and second is Y . Length of $X<=10000$, Length of $Y<=1000$.

## Output

For each test cases, You should output exactly one integer is the minimum number of characters to be remove

## Example

Input:
ababaa
aba
Output:
1

