

CHI-CHI-PONG

Time limit: 2 sec.

Memory limit: 512MB

Description

When two Korean boys speak the same simultaneously, they say "CHI-CHI-PONG", or "찌찌뽕" in Korean. The one who says "CHI-CHI-PONG" first wins, and the other gets humiliated because "CHI-CHI" means nipples. Some youngsters even twist the other's nipples. That's really weird. Don't worry. Most of the time, we just say the word.

Minkyu and Sungsoo are old friends. Minkyu, an insightful person, wants to CHI-CHI-PONG Sungsoo. Because Minkyu is an old friend of Sungsoo and he has incredible insight, he always knows when and what Sungsoo will speak. So, it is possible for Minkyu to CHI-CHI-PONG Sungsoo whenever he speaks.

Minkyu and Sungsoo are given are each given a string, and they will both speak the letters of the string in the order it is located in the string. However, Minkyu knows Sungsoo's string, and can therefore control the timing when he will say his letters. For example, if Minkyu's string is "abc", and Sungsoo's string is "deazbzc", Minkyu can just wait until Sungsoo says 'a', and say 'a' at the same time and CHI-CHI-PONG him. If he repeats this, Minkyu can CHI-CHI-PONG Sungsoo a maximum of 3 times.

Let's help Minkyu teasing poor Sungsoo. How many times can Minkyu CHI-CHI-PONG Sungsoo?

Input

The first line of the input contains a string s , the list of words Minkyu will speak. Also, the second line contains a string t , the list of words Sungsoo will speak. ($1 \leq |s|, |t| \leq 1000$)

Output

Print an integer that denotes the number of times Minkyu can CHI-CHI-PONG Sungsoo, in one line.

Sample I/O

Input(s)	Output(s)
databaseisdifficultbecause wehavetotypeitwithonehand	8