Substring substitution   P43134_en

Given two strings of the same length, composed only by lowercase letters, please compute the minimum amount of transformations needed to convert the first string into the second. A transformation is defined as selecting a contiguous substring s of the first string, choosing a lowercase letter c, and changing every character in s by c.

Input

Input consists of several cases, each with two strings s_1 and s_2 of the same length, between 1 and 50.

Output

For every case, print its number followed by the least amount of transformations needed to convert s_1 into s_2.

Sample input 1

```
aaaa bbbb
abcd eeee
ab ba
abab cdcd
aaaaabbb ccddccbb
x x
```

Sample output 1

```
Case #1: 1
Case #2: 1
Case #3: 2
Case #4: 3
Case #5: 2
Case #6: 0
```

Problem information

Author: Jaher

Generation: 2026-01-25T11:11:02.251Z