
Substring substitution

P43134_en

Vuitè Concurs de Programació de la UPC - Semifinal (2010-06-30)

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

```
aaaa bbbb
abcd eeee
ab ba
abab cdc d
aaaaabbb cddccbb
x x
```

Sample output

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

Problem information

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