



4394 - String painter

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There are two strings A and B with equal length. Both strings are made up of lower case letters. Now you have a powerful string painter. With the help of the painter, you can change a segment of characters of a string to any other character you want. That is, after using the painter, the segment is made up of only one kind of character. Now your task is to change A to B using string painter. What's the minimum number of operations?

Input

Input contains multiple cases. Each case consists of two lines:

- The first line contains string A.
- The second line contains string B.

The length of both strings will not be greater than 100.

Output

A single line contains one integer representing the answer.

Sample Input

```
zzzzzfzzzzz
abcdefedcba
abababababab
cdcdcdcdcdcd
```

Sample Output

```
6
7
```

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