

# Minimum string moves

We have two strings A and B which are permutations of the same set of characters. We need to change these strings to obtain two identical strings by performing the following operations:

- 1) swap two consecutive characters of a string
- 2) swap the first and the last characters of a string

The operation can be performed on either string. Return the minimum number of moves that we need in order to obtain two equal strings?

## Constraints

$1 < \text{length}(A) = \text{length}(B) \leq 2,000$

All the input characters are between 'a' and 'z'

The count of each distinct character in A is identical to the count of the same character in B.

## Input

First line: String A.

Second line: String B.

## Output

Minimum number of moves.

## Example

**Input:**

aab

baa

**Output:**

1