

Transforming Strings

Timelimit: 1 sec

Problem description

We have two strings $u, v \in \{a, b\}^*$ of the same length n . You are allowed to apply the following operation to v : Choose two adjacent characters in v and exchange them. For example $aabba$ can be changed to $ababa$. Find out how many operations are at least needed to transform v into u .

Input

Two strings $u, v \in \{a, b\}^*$ of the same length. The length is at most 1000.

Output

The minimal number of operations to transform v into u . It is guaranteed that a transformation is possible.

Sample input/output

Input	Output
8 abaabaab babbaaaa	7