

Conversion

SEASON 7 – SECOND ROUND



After he had some fun, Ivancho decided to do something more productive. Now he started looking at binary numbers. He took a piece of paper and wrote two binary numbers a and b (may contain leading zeros). He wonders if he can convert a into b by performing operations of two types:

- Change a bit from number a with its opposite (i.e., replace 0 with 1 or 1 with 0);
- Swap any pair of bits from a .

After he thought for a while, he figured out that this is possible, but now he wonders what is the minimum number of operations that are needed in order to convert a into b . Help him with the task, so he can finally rest after the long day.

Input

The first and the second line of the file `conversion.in` contains a and b (may contain leading zeros), a and b have equal lengths.

Output

In the output file `conversion.out` print one number – the minimum number of operations needed to convert a into b .

Constraints

The lengths of a and b are bigger than 1 and do not exceed 10^5

Time limit: 1.0 sec

Memory limit: 256 MB

Example test

Input (<code>conversion.in</code>)	Output (<code>conversion.out</code>)
01 10	1
110 100	1