

Hamming distance

Your task is to write a function that, given two strings as input, calculate the Hamming Distance between two DNA strands.

Your body is made up of cells that contain DNA. Those cells regularly wear out and need replacing, which they achieve by dividing into daughter cells. In fact, the average human body experiences about 10 quadrillion cell divisions in a lifetime!

When cells divide, their DNA replicates too. Sometimes during this process mistakes happen, and single pieces of DNA get encoded with the incorrect information. If we compare two strands of DNA and count the differences between them, we can see how many mistakes occurred. This is known as the "Hamming Distance".

We read DNA using the letters C, A, G and T. Two strands might look like this:

```
GAGCCTACTAACGGGAT
CATCGTAATGACGGCCT
^ ^ ^ ^ ^  ^^
```

They have 7 differences, and therefore the Hamming Distance is 7.

Note

The Hamming distance is only defined for sequences of equal length, so an attempt to calculate it between sequences of different lengths should not work.

Input

The first line of input contains a string A.

The first line of input contains a string B.

Output

The first line displays the Hamming distance between two strings or "Wrong Input" if they have different lengths.

Sample input

Sample output

GAGCCTACTAACGGGAT CATCGTAATGACGGCCT	7
GAGCCTACTAACGGGAT CGTCGTAATGACAGCCTT	Wrong Input!
GAGCCTACTAACGGGAT GAGCGTAATAACGGCCT	4