Longest palindrom   P34755_en

Two friends play a simple game: Each of them writes a string by pressing *at random* the lower-case letters of his keyboard. Afterwards, the one that has the longest palindromic substring in the string just written, wins. Implement a program to help them to decide who is the winner.

Input

Input is a sequence of cases separated by a blank line. Every case has two lines, each with a non-empty string consisting only of lowercase letters. No line has more than 1000 characters.

Output

For every case, print the case number and who wins the game following the sample output.

Observation

Although the sample input is not random, the rest of input is random.

Sample input 1

```
abcabcabc
banana

wasitaratisaw
aaaaaaaazzzzzzaaaxxxxxaaaaa

abcdeedcba
aaaaaaaaaa
```

Sample output 1

```
Case #1: The second player wins.
Case #2: The first player wins.
Case #3: Tie.
```

Problem information

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