

France is Bacon

Filename: bacon

My story¹ goes:

When I was young my father said to me:

“Knowledge is Power....Francis Bacon”

I understood it as “Knowledge is power, France is Bacon.”

For more than a decade I wondered over the meaning of the second part and what was the surreal linkage between the two? If I said the quote to someone, “Knowledge is power, France is Bacon” they nodded knowingly. Or someone might say, “Knowledge is power” and I’d finish the quote “France is Bacon” and they wouldn’t look at me like I’d said something very odd but thoughtfully agree. I did ask a teacher what “Knowledge is power, France is Bacon” meant and got a full 10 minute explanation of the “Knowledge is power” bit, but nothing on “France is Bacon.” When I prompted further explanation by saying “France is Bacon?” in a questioning tone I just got a “yes.” At 12 years old, I didn’t have the confidence to press it further. I just accepted it as something I’d never understand.

From then on, while I now understood the meaning of “Knowledge is power” I continued to be puzzled over “France is Bacon” and used them interchangeably for a long while, thinking they were equivalent.

It wasn’t until years later I saw it written down that the penny dropped.

The Problem:

Given a sentence, determine how many times "France" would be replaced by "Bacon" within it. Note that "France" is a proper noun so any instances with differing capitalization should be ignored (for example, "france" should not be replaced by "bacon"). However, we do not care if "France" is a part of another word (so words such as "Frances" would be replaced with "Bacons").

¹ Origin unknown.

The Input:

Input will begin with a single, positive integer, n , on a line by itself, representing the number of sentences. On each of the next n lines, a single sentence will be given (each sentence will be a maximum of 80 characters). The only punctuation marks that might be a part of the input are the period, question mark, exclamation point, comma, quotation mark and apostrophe. Spaces at the front and end of a line as well as multiple consecutive spaces will not occur.

The Output:

For each line of input, output the line "Sentence # i : r " where i is the number of the sentence (starting with 1) and r is the number of times that "France" would be replaced with "Bacon" in that sentence (if we were to do the replacement).

Sample Input:

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11
For more than a decade I wondered over the second part.
France is Bacon or Bacon is France?
What was the surreal linkage between the two?
If I said "Knowledge is power, France is Bacon" they nodded.
Or I'd finish the quote "France is Bacon" and they would agree.
I did get an explanation of the Knowledge is power bit.
But nothing on "France is Bacon."
When I prompted further explanation by saying "France is Bacon?"
I just got a "yes."
At 12 years old, I didn't have the confidence to press it.
I just accepted it as something I'd never understand.
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Sample Output:

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Sentence #1: 0
Sentence #2: 2
Sentence #3: 0
Sentence #4: 1
Sentence #5: 1
Sentence #6: 0
Sentence #7: 1
Sentence #8: 1
Sentence #9: 0
Sentence #10: 0
Sentence #11: 0
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