

Problem 824: Goat Latin

Problem Information

Difficulty: Easy

Acceptance Rate: 69.75%

Paid Only: No

Tags: String

Problem Description

You are given a string `sentence` that consist of words separated by spaces. Each word consists of lowercase and uppercase letters only.

We would like to convert the sentence to "Goat Latin" (a made-up language similar to Pig Latin.) The rules of Goat Latin are as follows:

- * If a word begins with a vowel ('a', 'e', 'i', 'o', or 'u'), append ``ma`` to the end of the word. * For example, the word ``apple`` becomes ``applema``.
- * If a word begins with a consonant (i.e., not a vowel), remove the first letter and append it to the end, then add ``ma``.
- * For example, the word ``goat`` becomes ``oatgma``.
- * Add one letter `'a'` to the end of each word per its word index in the sentence, starting with `1`. * For example, the first word gets ``"a`` added to the end, the second word gets ``"aa`` added to the end, and so on.

Return _the final sentence representing the conversion from sentence to Goat Latin_.

Example 1:

Input: sentence = "I speak Goat Latin" **Output:** "Imaa peaksmaaa oatGmaaaa atinLmaaaaa"

Example 2:

Input: sentence = "The quick brown fox jumped over the lazy dog" **Output:** "heTmaaa uickqmaaa rownbmaaaa oxfmaaaaa umpedjmaaaaaaa overmaaaaaaaaa hetmaaaaaaaaa azylmaaaaaaaaaaa ogdmaaaaaaaaaaa"

****Constraints:****

* `1 <= sentence.length <= 150` * `sentence` consists of English letters and spaces.
* `sentence` has no leading or trailing spaces. * All the words in `sentence` are separated by a single space.

Code Snippets

C++:

```
class Solution {  
public:  
    string toGoatLatin(string sentence) {  
  
    }  
};
```

Java:

```
class Solution {  
public String toGoatLatin(String sentence) {  
  
}  
}
```

Python3:

```
class Solution:  
    def toGoatLatin(self, sentence: str) -> str:
```