

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:** `"heTmaa uickqmaaa rownbmaaaa oxfmaaaaa umpedjmaaaaaa overmaaaaaaa hetmaaaaaaaa azylmaaaaaaaa ogdmaaaaaaaa"`

****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:
```