

## 2490. Circular Sentence

A **sentence** is a list of words that are separated by a **single** space with no leading or trailing spaces.

- For example, "Hello World", "HELLO", "hello world hello world" are all sentences.

Words consist of **only** uppercase and lowercase English letters. Uppercase and lowercase English letters are considered different.

A sentence is **circular** if:

- The last character of a word is equal to the first character of the next word.
- The last character of the last word is equal to the first character of the first word.

For example, "leetcode exercises sound delightful", "eetcode", "leetcode eats soul" are all circular sentences. However, "Leetcode is cool", "happy Leetcode", "Leetcode" and "I like Leetcode" are **not** circular sentences.

Given a string `sentence`, return `true` *if it is circular*. Otherwise, return `false`.

### Example 1:

**Input:** `sentence = "leetcode exercises sound delightful"`

**Output:** `true`

**Explanation:** The words in sentence are ["leetcode", "exercises", "sound", "delightful"].

- leetcode's last character is equal to exercises's first character.
- exercises's last character is equal to sound's first character.
- sound's last character is equal to delightful's first character.
- delightful's last character is equal to leetcode's first character.

The sentence is circular.

### Example 2:

**Input:** `sentence = "eetcode"`

**Output:** `true`

**Explanation:** The words in sentence are ["eetcode"].

- eetcode's last character is equal to eetcode's first character.

The sentence is circular.

### Example 3:

**Input:** `sentence = "Leetcode is cool"`

**Output:** `false`

**Explanation:** The words in sentence are ["Leetcode", "is", "cool"].

- Leetcode's last character is **not** equal to is's first character.

The sentence is **not** circular.

**Constraints:**

- `1 <= sentence.length <= 500`
- `sentence` consist of only lowercase and uppercase English letters and spaces.
- The words in `sentence` are separated by a single space.
- There are no leading or trailing spaces.

## 2490. Circular Sentence

```
/*
Time complexity: O(n)
Space complexity: O(1)
*/
class Solution {
public:
    bool isCircularSentence(std::string sentence){
        int n=sentence.size();
        if(sentence[0]!=sentence[n-1]) return false;
        for(int i=0;i<n;++i){
            if(sentence[i]==' ' && sentence[i-1]!=sentence[i+1]) return false;
        }
        return true;
    }
};
```

## 2490. Circular Sentence

```
/*
C++ STL all_of
Time complexity: O(n)
Space complexity: O(1)
*/
class Solution {
public:
    bool isCircularSentence(std::string s){
        return s[0]==s.back() && std::all_of(s.begin(), s.end(), [&, i=0](auto _) mutable{
            return !i++ || s[i]!=' ' || s[i-1]==s[i+1];
        });
    }
};
```