PROBLEM

58. Length of Last Word

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Given a string s consisting of words and spaces, return *the length of the last word in the string.*

A **word** is a maximal substring consisting of non-space characters only.

Example 1:

```
Input: s = "Hello World"
Output: 5
Explanation: The last word is "World" with length 5.
```

Example 2:

```
Input: s = "   fly me   to   the moon  "
Output: 4
Explanation: The last word is "moon" with length 4.
```

Example 3:

```
Input: s = "luffy is still joyboy"
Output: 6
Explanation: The last word is "joyboy" with length 6.
```

Constraints:

- $1 <= s.length <= 10^4$

- s consists of only English letters and spaces ' '.

- There will be at least one word in s.

CODE

```java
class Solution {
    public int lengthOfLastWord(String s) {

        String str = s.trim();
        int count=0;
        for(int i=str.length()-1;i>=0;i--){
            if(str.charAt(i)!=' '){
                count++;
            }
            else{
                break;
            }
        }
        return count;
```

```
    }
}
```

EXPLANATION

➢ **Input:** The method called lengthOfLastWord takes a sentence (a string of words) as input.

➢ **Trimming:** It first removes any spaces at the beginning or end of the sentence. For example, if the sentence is " Hello World ", it trims it to "Hello World".

➢ **Counting:** Then, it counts the characters of the last word in the trimmed sentence. It starts counting from the end of the sentence and stops when it encounters a space.

➢ **Returning:** Finally, it returns the number of characters in the last word.