Length of Last Word

Given a string *s* consists of upper/lower-case alphabets and empty space characters , return the length of last word in the string.

If the last word does not exist, return o.

Note: A word is defined as a character sequence consists of non-space characters only.

```
For example,
Given s = "Hello World",
return 5.
```

Solution 1

I've noticed that a lot of solutions use available library functions that return directly the positions of certain characters or do other operations like "split". I personally don't think that's a good idea. Firstly, these functions take some time and usually involve with iteration through the whole string. Secondly, questions like this one is intended to be a practice of detail implementation, not calling other functions. My solution like below uses only the most basic string operations and probably beats many other solutions which call other existing functions.

written by eaglesky1990 original link here

Solution 2

```
public int lengthOfLastWord(String s) {
    return s.trim().length()-s.trim().lastIndexOf(" ")-1;
}
```

written by <mark>lvlolitte</mark> original link here

Solution 3

Well, the basic idea is very simple. Start from the tail of s and move backwards to find the first non-space character. Then from this character, move backwards and count the number of non-space characters until we pass over the head of s or meet a space character. The count will then be the length of the last word.

```
class Solution {
public:
    int lengthOfLastWord(string s) {
        int len = 0, tail = s.length() - 1;
        while (tail >= 0 && s[tail] == ' ') tail--;
        while (tail >= 0 && s[tail] != ' ') {
            len++;
            tail--;
        }
        return len;
    }
};
```

written by jianchao.li.fighter original link here

From Leetcoder.