Length of Last Word

Question: 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 0.

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

For example,

Given s = "Hello World",

return 5.

Solutions:

```
class Solution:
    # @param s, a string
    # @return an integer
    def lengthOfLastWord1(self, s):
        return len(s.split()[len(s.split())-1]) if s.split() != [] else 0


    # @param s, a string
    # @return an integer
    def lengthOfLastWord2(self, s):
        s = s.strip()       # Remove the spaces at the beginning and end
        length = 0
        for letter in s:
            if letter == " ":   length = 0   # Waiting for the next word
            else:               length += 1  # Inside one word
        return length
```

```
    # @param s, a string
    # @return an integer
    def lengthOfLastWord3(self, s):
        preLength = 0   # Length of previous word
        length = 0      # Length of current word
        for letter in s:
            if letter == " ":          # Waiting for the next word
                if length != 0:        # This is a single zero or
                                       # leading one in zeros
                    preLength = length
                    length = 0
                else:                  # A following zero in zeros
                    pass
            else:
                # Inside one word
                length += 1
        if length == 0:     return preLength    # s ends with zero(s)
        else:               return length      # s ends with word

print ( Solution().lengthOfLastWord1("Hello World") )
print ( Solution().lengthOfLastWord2("Hello Worlds") )
print ( Solution().lengthOfLastWord3("Hello Everybody") )
```