

151. Reverse Words in a String

Medium



3263



3933



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Given an input string `s`, reverse the order of the **words**.

A **word** is defined as a sequence of non-space characters. The **words** in `s` will be separated by at least one space.

Return *a string of the words in reverse order concatenated by a single space*.

Note that `s` may contain leading or trailing spaces or multiple spaces between two words. The returned string should only have a single space separating the words. Do not include any extra spaces.

Example 1:

Input: `s = "the sky is blue"`

Output: `"blue is sky the"`

Example 2:

Input: `s = " hello world "`

Output: `"world hello"`

Explanation: Your reversed string should not contain leading or trailing spaces.

Example 3:

Input: `s = "a good example"`

Output: `"example good a"`

Explanation: You need to reduce multiple spaces between two words to a single space in the reversed string.

Constraints:

- `1 <= s.length <= 104`
- `s` contains English letters (upper-case and lower-case), digits, and spaces ' '.
- There is **at least one** word in `s`.

```
string reverseWords(string s) {  
    if(s.size() == 0) {  
        return s;  
    }  
  
    stack<string> stack;  
    string result;  
  
    for(int i=0; i<s.size(); i++) {  
        string word;  
        if(s[i] == ' ') continue;  
  
        while((i < s.size()) && (s[i] != ' ')) {  
            word += s[i];  
            i++;  
        }  
        stack.push(word);  
    }  
  
    while(!stack.empty()) {  
        result += stack.top();  
        stack.pop();  
        if(!stack.empty()) {  
            result += " ";  
        }  
    }  
    return result;  
}
```

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