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151. Reverse Words in a String

Medium   👍 2416   👎 3613   ♡ Add to List   🔗 Share

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.
```

Example 4:

```
Input: s = "  Bob    Loves  Alice   "
Output: "Alice Loves Bob"
```

Example 5:

```
Input: s = "Alice does not even like bob"
Output: "bob like even not does Alice"
```

Constraints:

- $1 <= s.length <= 10^4$
- `s` contains English letters (upper-case and lower-case), digits, and spaces `' '`.
- There is **at least one** word in `s`.

Follow-up: If the string data type is mutable in your language, can you solve it **in-place** with `O(1)` extra space?

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```java
class Solution {
    public String reverseWords(String s) {

    }
}
```

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