151. Reverse Words in a String

Description

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:

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Input: s = "the sky is blue"
Output: "blue is sky the"
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Example 2:

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Input: s = " hello world "
Output: "world hello"
Explanation: Your reversed string should not contain leading or trailing spaces.
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Example 3:

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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.
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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 0(1) extra space?