

186. Reverse Words in a String II

Medium

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Given a character array `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 a single space.

Your code must solve the problem **in-place**, i.e. without allocating extra space.

Example 1:

Input: `s = ["t","h","e"," ","s","k","y"," ","i","s"," ","b","l","u","e"]`

Output: `["b","l","u","e"," ","i","s"," ","k","y"," ","t","h","e"]`

Example 2:

Input: `s = ["a"]`

Output: `["a"]`

Constraints:

- `1 <= s.length <= 105`
- `s[i]` is an English letter (uppercase or lowercase), digit, or space `' '`.
- There is **at least one** word in `s`.
- `s` does not contain leading or trailing spaces.
- All the words in `s` are guaranteed to be separated by a single space.

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```
class Solution {
    public void reverse(char[] s, int left, int right) {
        while (left < right) {
            char tmp = s[left];
            s[left++] = s[right];
            s[right--] = tmp;
        }
    }

    public void reverseEachWord(char[] s) {
        int n = s.length;
        int start = 0, end = 0;

        while (start < n) {
            // go to the end of the word
            while (end < n && s[end] != ' ') ++end;
            // reverse the word
            reverse(s, start, end - 1);
            // move to the next word
            start = end + 1;
            ++end;
        }
    }

    public void reverseWords(char[] s) {
        // reverse the whole string
        reverse(s, 0, s.length - 1);

        // reverse each word
        reverseEachWord(s);
    }
}
```

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