

186. Reverse Words in a String II

Given an input string , reverse the string word by word.

Example 1:

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

```
class Solution {
    public void reverseWords(char[] s) {

        //reverse the whole string
        reverse(s, 0, s.length-1);

        // reverse each word
        int start = 0;
        for (int i = 0; i < s.length; i++) {
            if (s[i] == ' ') {
                reverse(s, start, i-1);
                start = i+1;
            }
        }

        // reverse the last word
        reverse(s, start, s.length-1);
    }

    private void reverse(char[] s, int start, int end) {
        while(start < end) {
            char temp = s[start];
            s[start] = s[end];
            s[end] = temp;
            start++;
            end--;
        }
    }
}
```