

# 151. Reverse Words in a String

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题目描述: <https://leetcode.com/problems/reverse-words-in-a-string/>

给定一个句子，求这个句子反过来读的结果，要求删掉所有非法的空格。

例如：

```
"the sky is blue"  --> "blue is sky the"
"  a  b  "         --> "b a"
" "                --> ""
```

解题思路：

先把原来句子中所有非法的空格都删掉，然后在做reverse

代码：

```

class Solution {
public:
    void reverseWords(string &s) {
        while(s.size() > 0 && s.at(0) == ' '){
            s.erase(0, 1);
        }
        while(s.size() > 0 && s.at(s.size() - 1) == ' '){
            s.erase(s.size() - 1, 1);
        }
        for(int i = 0; i < s.size(); i++){
            if(s.at(i) == ' '){
                i++;
                while(i < s.size() && s.at(i) == ' '){
                    s.erase(i, 1);
                }
            }
        }
        int i = s.find(" ");
        if(s.size() == 0 || s.size() == 1 || i < 0)
            return ;
        string t;
        int start = 0, end = 0;
        for(int i = 0 ; i <= s.size(); i++){
            if(i == s.size() || s.at(i) == ' '){
                end = i;
                t = s.substr(start, end-start);
                t = t + " ";
                if(i == s.size())
                    s.erase(start-1, end-start+1);
                else
                    s.erase(start, end-start+1);
                s.insert(0, t);
                start = i+1;
            }
        }
    }
};

```