# Reverse Words In A Sentence II

```python
class Solution(object):
  def reverseWords(self, input):
    """
    input: string input
    return; string
    """
    # write yoour solution here
    if not input:
      return input
    array = list(input)
    end = 0
    for i in range(len(array)):
      if array[i] == " " and (i == 0 or array[i - 1] == " "):
        continue
      array[end] = array[i]
      end += 1
    if end > 0 and array[end - 1] == ' ':
      end -= 1

    self.reverse(array, 0, end - 1)
    start = 0
    for i in range(end):
      if array[i] != " " and (i == 0 or array[i - 1] == " "):
        start = i
      if array[i] != " " and (i == end - 1 or array[i + 1] == " "):
        self.reverse(array, start, i)
    return "".join(array[:end])

  def reverse(self, array, left, right):
    while left < right:
      array[left], array[right] = array[right], array[left]
      left += 1
      right -= 1
```