# Problem 1592: Rearrange Spaces Between Words

## Problem Information

**Difficulty:** Easy
**Acceptance Rate:** 44.07%
**Paid Only:** No
**Tags:** String

## Problem Description

You are given a string `text` of words that are placed among some number of spaces. Each word consists of one or more lowercase English letters and are separated by at least one space. It's guaranteed that `text` **contains at least one word**.

Rearrange the spaces so that there is an **equal** number of spaces between every pair of adjacent words and that number is **maximized**. If you cannot redistribute all the spaces equally, place the **extra spaces at the end** , meaning the returned string should be the same length as `text`.

Return _the string after rearranging the spaces_.

**Example 1:**

**Input:** text = " this is a sentence " **Output:** "this is a sentence" **Explanation:** There are a total of 9 spaces and 4 words. We can evenly divide the 9 spaces between the words: 9 / (4-1) = 3 spaces.

**Example 2:**

**Input:** text = " practice makes perfect" **Output:** "practice makes perfect " **Explanation:** There are a total of 7 spaces and 3 words. 7 / (3-1) = 3 spaces plus 1 extra space. We place this extra space at the end of the string.

**Constraints:**

* `1 <= text.length <= 100` * `text` consists of lowercase English letters and `' '`. * `text` contains at least one word.

## Code Snippets

**C++:**

```
class Solution {
public:
string reorderSpaces(string text) {

}
};
```

**Java:**

```
class Solution {
public String reorderSpaces(String text) {

}
}
```

**Python3:**

```
class Solution:
def reorderSpaces(self, text: str) -> str:
```