5519. Rearrange Spaces Between Words

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User Accepted:	0
User Tried:	1
Total Accepted:	0
Total Submissions:	1
Difficulty:	Easy

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
```

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
```

Example 3:

```
Input: text = "hello   world"
Output: "hello   world"
```

Example 4:

```
Input: text = "  walks  udp package   into  bar a"
Output: "walks  udp  package  into  bar  a "
```

Example 5:

```
Input: text = "a"
Output: "a"
```

Constraints:

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

JavaScript

```javascript
/**
 * @param {string} text
 * @return {string}
 */
const reorderSpaces = (text) => {
    let oLen = text.length;
    let space = 0;
    for (const t of text) {
        if (t == ' ') {
            space++;
        }
    }
    let s = text.trim();
    let data = s.split(" ").filter(x => x.length != 0);
    let n = data.length;
    if (n == 1) {
        let res = data[0];
        let rest = oLen - res.length;
        for (let i = 1; i <= rest; i++) {
            res += ' ';
        }
        return res;
    } else {
        let res = '';
        let k = Math.floor(space / (n - 1));
        let rest = space % (n - 1);
        for (let i = 0; i < n; i++) {
            res += data[i];
            if (i != n - 1) {
                for (let j = 1; j <= k; j++) {
                    res += ' ';
                }
            }
        }
        if (rest != 0) {
            for (let i = 1; i <= rest; i++) {
                res += ' ';
            }
        }
        console.log(res, res.length);
        return res;
    }
};
```

□ **Custom Testcase** Use Example Testcases

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