

# Problem 2399: Check Distances Between Same Letters

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 71.29%

**Paid Only:** No

**Tags:** Array, Hash Table, String

## Problem Description

You are given a **0-indexed** string `s` consisting of only lowercase English letters, where each letter in `s` appears **exactly twice**. You are also given a **0-indexed** integer array `distance` of length `26`.

Each letter in the alphabet is numbered from `0` to `25` (i.e. `'a' -> 0`, `'b' -> 1`, `'c' -> 2`, ..., `'z' -> 25`).

In a **well-spaced** string, the number of letters between the two occurrences of the `ith` letter is `distance[i]`. If the `ith` letter does not appear in `s`, then `distance[i]` can be **ignored**.

Return `true` \_if\_ `s` \_is a **well-spaced** string, otherwise return `false`.

**Example 1:**

**Input:** s = "abaccb", distance = [1,3,0,5,0]  
**Output:** true  
**Explanation:** - 'a' appears at indices 0 and 2 so it satisfies distance[0] = 1.  
- 'b' appears at indices 1 and 5 so it satisfies distance[1] = 3.  
- 'c' appears at indices 3 and 4 so it satisfies distance[2] = 0. Note that distance[3] = 5, but since 'd' does not appear in s, it can be ignored. Return true because s is a well-spaced string.

**Example 2:**

**Input:** s = "aa", distance = [1,0]  
**Output:** false  
**Explanation:** - 'a' appears at indices 0 and 1 so there are zero letters between them.

Because  $\text{distance}[0] = 1$ ,  $s$  is not a well-spaced string.

**\*\*Constraints:\*\***

\*  $2 \leq s.length \leq 52$  \*  $s$  consists only of lowercase English letters. \* Each letter appears in  $s$  exactly twice. \*  $\text{distance.length} == 26$  \*  $0 \leq \text{distance}[i] \leq 50$

## Code Snippets

**C++:**

```
class Solution {
public:
    bool checkDistances(string s, vector<int>& distance) {
        }
    };
}
```

**Java:**

```
class Solution {
    public boolean checkDistances(String s, int[] distance) {
        }
    }
}
```

**Python3:**

```
class Solution:
    def checkDistances(self, s: str, distance: List[int]) -> bool:
```