









5603. Determine if Two Strings Are Close

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Two strings are considered close if you can attain one from the other using the following operations:

- Operation 1: Swap any two existing characters.
 - For example, abcde -> aecdb
- Operation 2: Transform every occurrence of one existing character into another existing character, and do the same with the other character.
 - For example, <u>aacabb</u> -> <u>bbcbaa</u> (all a 's turn into b 's, and all b 's turn into a 's)

You can use the operations on either string as many times as necessary.

Given two strings, word1 and word2, return true if word1 and word2 are close, and false otherwise.

| User Accepted: | 1 |
|--------------------|--------|
| User Tried: | 9 |
| Total Accepted: | 1 |
| Total Submissions: | 10 |
| Difficulty: | Medium |

Example 1:

```
Input: word1 = "abc", word2 = "bca"
Output: true
Explanation: You can attain word2 from word1 in 2 operations.
Apply Operation 1: "abc" -> "acb"
Apply Operation 1: "acb" -> "bca"
```

Example 2:

```
Input: word1 = "a", word2 = "aa"
Output: false
Explanation: It is impossible to attain word2 from word1, or vice versa, in any number of operations.
```

Example 3:

```
Input: word1 = "cabbba", word2 = "abbccc"
Output: true
Explanation: You can attain word2 from word1 in 3 operations.
Apply Operation 1: "cabbba" -> "caabbb"
Apply Operation 2: "caabbb" -> "baaccc"
Apply Operation 2: "baaccc" -> "abbccc"
```

Example 4:

```
Input: word1 = "cabbba", word2 = "aabbss"
Output: false
Explanation: It is impossible to attain word2 from word1, or vice versa, in any amount of operations.
```

Constraints:

- 1 <= word1.length, word2.length <= 10⁵
- word1 and word2 contain only lowercase English letters.

```
JavaScript
                                                                                                                क
1 • /**
2
     * @param {string} word1
3
     * @param {string} word2
     * @return {boolean}
4
5
     */
6
   var closeStrings = function(word1, word2) {
8
```