

5910. Check Whether Two Strings are Almost Equivalent

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Two strings word1 and word2 are considered **almost equivalent** if the differences between the frequencies of each letter from 'a' to 'z' between word1 and word2 is **at most 3**.

Given two strings word1 and word2, each of length n, return true if word1 and word2 are **almost equivalent**, or false otherwise.

The **frequency** of a letter x is the number of times it occurs in the string.

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

Example 1:

Input: word1 = "aaaa", word2 = "bccb"

Output: false

Explanation: There are 4 'a's in "aaaa" but 0 'a's in "bccb". The difference is 4, which is more than the allowed 3.

Example 2:

Input: word1 = "abcdeef", word2 = "abaaacc"

Output: true

Explanation: The differences between the frequencies of each letter in word1 and word2 are at most 3:

- 'a' appears 1 time in word1 and 4 times in word2. The difference is 3.
- 'b' appears 1 time in word1 and 1 time in word2. The difference is 0.
- 'c' appears 1 time in word1 and 2 times in word2. The difference is 1.
- 'd' appears 1 time in word1 and 0 times in word2. The difference is 1.
- 'e' appears 2 times in word1 and 0 times in word2. The difference is 2.
- 'f' appears 1 time in word1 and 0 times in word2. The difference is 1.

Example 3:

Input: word1 = "cccdabba", word2 = "babababab"

Output: true

Explanation: The differences between the frequencies of each letter in word1 and word2 are at most 3:

- 'a' appears 2 times in word1 and 4 times in word2. The difference is 2.
- 'b' appears 2 times in word1 and 5 times in word2. The difference is 3.
- 'c' appears 3 times in word1 and 0 times in word2. The difference is 3.
- 'd' appears 2 times in word1 and 0 times in word2. The difference is 2.

Constraints:

- n == word1.length == word2.length
- 1 <= n <= 100
- word1 and word2 consist only of lowercase English letters.

JavaScript

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```
1 const counter = (a_or_s) => { let m = new Map(); for (const x of a_or_s) m.set(x, m.get(x) + 1 || 1); return m; };
2
3 const checkAlmostEquivalent = (s1, s2) => {
4   let m1 = counter(s1), m2 = counter(s2);
5   for (const [x, occ] of m1) {
6     let occ2 = m2.get(x) || 0;
7     if (Math.abs(occ - occ2) > 3) {
8       return 0;
9     }
10  }
```

```
10     }
11     for (const [x, occ2] of m2) {
12         let occ = m1.get(x) || 0;
13         if (Math.abs(occ - occ2) > 3) {
14             return 0;
15         }
16     }
17     return 1;
18 };
```

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