

6284. Make Number of Distinct Characters Equal

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You are given two **0-indexed** strings `word1` and `word2`.

A **move** consists of choosing two indices `i` and `j` such that `0 <= i < word1.length` and `0 <= j < word2.length` and swapping `word1[i]` with `word2[j]`.

Return `true` if it is possible to get the number of distinct characters in `word1` and `word2` to be equal with **exactly one** move. Return `false` otherwise.

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

Example 1:

Input: `word1 = "ac", word2 = "b"`
Output: `false`
Explanation: Any pair of swaps would yield two distinct characters in the first string, and one in the second string.

Example 2:

Input: `word1 = "abcc", word2 = "aab"`
Output: `true`
Explanation: We swap index 2 of the first string with index 0 of the second string. The resulting strings are `word1 = "abac"` and `word2 = "bcb"`.

Example 3:

Input: `word1 = "abcde", word2 = "fghij"`
Output: `true`
Explanation: Both resulting strings will have 5 distinct characters, regardless of which indices we swap.

Constraints:

- `1 <= word1.length, word2.length <= 105`
- `word1` and `word2` consist of only lowercase English letters.

JavaScript

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```
1 const ord = (c) => c.charCodeAt();
2
3 const isItPossible = (s, t) => {
4   let a = Array(26).fill(0), b = Array(26).fill(0);
5   for (const c of s) a[ord(c) - 97]++;
6   for (const c of t) b[ord(c) - 97]++;
7   for (let i = 0; i < 26; i++) {
8     if (a[i] > 0) {
9       for (let j = 0; j < 26; j++) {
10        if (b[j] > 0) {
11          a[i]--;
12          b[i]++;
13          b[j]--;
14          a[j]++;
15          if (equalDistinct(a, b)) return true;
16          a[i]++;
17          b[i]--;
18          b[j]++;
19          a[j]--;
20        }
21      }
22    }
23  }
24  return false;
25 };
26
```

```
27 ▾ const equalDistinct = (a, b) => {  
28     let cntA = 0, cntB = 0;  
29 ▾     for (let i = 0; i < 26; i++) {  
30         if (a[i] > 0) cntA++;  
31         if (b[i] > 0) cntB++;  
32     }  
33     return cntA == cntB;  
34 };
```

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