2825. Make String a Subsequence Using Cyclic Increments



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You are given two **0-indexed** strings str1 and str2.

In an operation, you select a **set** of indices in str1, and for each index i in the set, increment str1[i] to the next character **cyclically**. That is 'a' becomes 'b', 'b' becomes 'c', and so on, and 'z' becomes 'a'.

Return true if it is possible to make str2 a subsequence of str1 by performing the operation at most once, and false otherwise.

Note: A subsequence of a string is a new string that is formed from the original string by deleting some (possibly none) of the characters without disturbing the relative positions of the remaining characters.

Example 1:

Input: str1 = "abc", str2 = "ad"

Output: true

Explanation: Select index 2 in str1. Increment str1[2] to become 'd'.

Hence, str1 becomes "abd" and str2 is now a subsequence. Therefore, true is returned.

Example 2:

Input: str1 = "zc", str2 = "ad"

Output: true

Explanation: Select indices 0 and 1 in str1.

Increment str1[0] to become 'a'. Increment str1[1] to become 'd'.

Hence, str1 becomes "ad" and str2 is now a subsequence. Therefore, true is returned.

Example 3:

Input: str1 = "ab", str2 = "d"

Output: false

Explanation: In this example, it can be shown that it is impossible to make str2 a subsequence of str1 using the operation at most once.

Therefore, false is returned.

Constraints:

• 1 <= str1.length <= 10⁵

• $1 \le str2.length \le 10^5$

• str1 and str2 consist of only lowercase English letters.

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Yes No

Discussion (5)

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