

@LeetCode

In an alien language, surprisingly they also use english lowercase letters, but possibly in a different `order`. The `order` of the alphabet is some permutation of lowercase letters.

Given a sequence of `words` written in the alien language, and the `order` of the alphabet, return `true` if and only if the given `words` are sorted lexicographically in this alien language.

Example 1:

Input: words = ["hello","leetcode"], order = "hlabcdefgijklmnopqrstuvwxyz"

Output: true

Explanation: As 'h' comes before 'l' in this language, then the sequence is sorted.

Example 2:

Input: words = ["word","world","row"], order = "worldabcefghijklmnopqrstuvwxyz"

Output: false

Explanation: As 'd' comes after 'l' in this language, then words[0] > words[1], hence the sequence is unsorted.

Example 3:

Input: words = ["apple","app"], order = "abcdefghijklmnopqrstuvwxyz"

Output: false

Explanation: The first three characters "app" match, and the second string is shorter (in size.) According to lexicographical rules "apple" > "app", because 'l' > 'Ø', where 'Ø' is defined as the blank character which is less than any other character ([More info](#)).

Note:

1. `1 <= words.length <= 100`
2. `1 <= words[i].length <= 20`
3. `order.length == 26`
4. All characters in `words[i]` and `order` are english lowercase letters.