Problem 953: Verifying an Alien Dictionary

Problem Information

Difficulty: Easy
Acceptance Rate: 55.76%
Paid Only: No
Tags: Array, Hash Table, String

Problem Description

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 = "hlabcdefgijkmnopqrstuvwxyz" **Output:** true **Explanation:** As 'h' comes before 'l' in this language, then the sequence is sorted.

Example 2:

Input: words = ["word","world","row"], order = "worldabcefghijkmnpqstuvxyz" **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' > '∅', where '∅' is defined as the blank character which is less than any other character ([More info](https://en.wikipedia.org/wiki/Lexicographical_order)).

Constraints:

* `1 <= words.length <= 100` * `1 <= words[i].length <= 20` * `order.length == 26` * All characters in `words[i]` and `order` are English lowercase letters.

Code Snippets

C++:

```
class Solution {
public:
bool isAlienSorted(vector<string>& words, string order) {

}
};
```

Java:

```
class Solution {
public boolean isAlienSorted(String[] words, String order) {

}
}
```

Python3:

```
class Solution:
def isAlienSorted(self, words: List[str], order: str) -> bool:
```