1858. Longest Word With All Prefixes Properties

Solved

Medium Topics Companies Thint

Given an array of strings words, find the **longest** string in words such that **every prefix** of it is also in words.

• For example, let words = ["a", "app", "app"]. The string "app" has prefixes "ap" and "a", all of which are in words.

Return the string described above. If there is more than one string with the same length, return the **lexicographically smallest** one, and if no string exists, return

Example 1:

Input: words = ["k","ki","kir","kira", "kiran"]

Output: "kiran"

Explanation: "kiran" has prefixes "kira", "kir", "ki", and "k", and all of them appear in words.

Example 2:

Input: words = ["a", "banana", "app", "appl", "ap", "apply", "apple"]

Output: "apple"

Explanation: Both "apple" and "apply" have all their prefixes in words.

However, "apple" is lexicographically smaller, so we return that.

Example 3:

Input: words = ["abc", "bc", "ab", "qwe"]
Output: ""

Constraints:

- 1 <= words.length <= 10⁵
- 1 <= words[i].length <= 10⁵
- 1 <= sum(words[i].length) <= 10⁵

Seen this question in a real interview before? 1/4

Yes No

Topics

Similar Questions

Accepted 7.3K Submissions 10.7K Acceptance Rate 68.1%

Companies V
Hint 1

Hint 2

Discussion (2)