

269. Alien Dictionary Premium

Hard Topics Companies

There is a new alien language that uses the English alphabet. However, the order of the letters is unknown to you.

You are given a list of strings `words` from the alien language's dictionary. Now it is claimed that the strings in `words` are **sorted lexicographically** by the rules of this new language.

If this claim is incorrect, and the given arrangement of string in `words` cannot correspond to any order of letters, return `""`.

Otherwise, return *a string of the unique letters in the new alien language sorted in **lexicographically increasing order** by the new language's rules*. If there are multiple solutions, return *any of them*.

Example 1:

Input: `words = ["wrt","wrf","er","ett","rftt"]`
Output: `"wertf"`

Example 2:

Input: `words = ["z","x"]`
Output: `"zx"`

Example 3:

Input: `words = ["z","x","z"]`
Output: `""`
Explanation: The order is invalid, so return `""`.

Constraints:

- `1 <= words.length <= 100`
- `1 <= words[i].length <= 100`
- `words[i]` consists of only lowercase English letters.

Seen this question in a real interview before? 1/5

Yes No

Accepted **403.8K** | Submissions **1.1M** | Acceptance Rate **36.1%**

Topics

ArrayStringDepth-First SearchBreadth-First SearchGraphTopological Sort

Companies

0 - 3 months

Uber11Amazon4Meta3

0 - 6 months

Google5Airbnb3Microsoft2Wix2X2Snap2

Pocket Gems2

6 months ago

TikTok7Bloomberg6Flipkart3Citadel2PhonePe2

Rippling2

Similar Questions

Course Schedule II Medium

Discussion (110)