

## 269. Alien Dictionary Premium

Hard

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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 new language's rules. That is, if `s` and `t` are strings, `s < t` in the new language's order if and only if the first character that differs between `s` and `t` in `s` is less than the corresponding character in `t` in the new language's order.

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*.

### 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.

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Yes No

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