

269. Alien Dictionary

Hard

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

You are given a list of strings `words` from the alien language's dictionary, where the strings in `words` are **sorted lexicographically** by the rules of this new language.

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 is no solution, return `""`. If there are multiple solutions, return **any of them**.

A string `s` is **lexicographically smaller** than a string `t` if at the first letter where they differ, the letter in `s` comes before the letter in `t` in the alien language. If the first `min(s.length, t.length)` letters are the same, then `s` is smaller if and only if `s.length < t.length`.

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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No

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6 months ~ 1 year

1 year ~ 2 years

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```
1 class Solution {
2     public String alienOrder(String[] words) {
3
4     }
5 }
```

