**Alien Dictionary:**

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.