

269. Alien Dictionary

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There is a new alien language which uses the latin alphabet. However, the order among letters are unknown to you. You receive a list of **non-empty** words from the dictionary, where **words are sorted lexicographically by the rules of this new language**. Derive the order of letters in this language.

Example 1:

Input:

```
[
  "wrt",
  "wrf",
  "er",
  "ett",
  "rftt"
]
```

Output: "wertf"

Example 2:

Input:

```
[
  "z",
  "x"
]
```

Output: "zx"

Example 3:

Input:

```
[
  "z",
  "x",
  "z"
]
```

Output: ""

Explanation: The order is invalid, so return "".

Note:

- You may assume all letters are in lowercase.
- If the order is invalid, return an empty string.
- There may be multiple valid order of letters, return any one of them is fine.

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```

1 class Solution(object):
2     def alienOrder(self, words):
3         """
4         :type words: List[str]
5         :rtype: str
6         """
7

```

Console
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