3598. Longest Common Prefix Between Adjacent Strings After Removals

Solved

Medium Topics Hint

You are given an array of strings `words`. For each index `i` in the range `[0, words.length - 1]`, perform the following steps:

- Remove the element at index `i` from the `words` array.
- Compute the **length** of the **longest common prefix** among all **adjacent** pairs in the modified array.

Return an array `answer`, where `answer[i]` is the length of the longest common prefix between the adjacent pairs after removing the element at index `i`. If **no** adjacent pairs remain or if **none** share a common prefix, then `answer[i]` should be 0.

Example 1:

> **Input:** words = ["jump","run","run","jump","run"]
>
> **Output:** [3,0,0,3,3]
>
> **Explanation:**
>
> - Removing index 0:
> - `words` becomes `["run", "run", "jump", "run"]`
> - Longest adjacent pair is `["run", "run"]` having a common prefix `"run"` (length 3)
> - Removing index 1:
> - `words` becomes `["jump", "run", "jump", "run"]`
> - No adjacent pairs share a common prefix (length 0)
> - Removing index 2:
> - `words` becomes `["jump", "run", "jump", "run"]`
> - No adjacent pairs share a common prefix (length 0)
> - Removing index 3:
> - `words` becomes `["jump", "run", "run", "run"]`
> - Longest adjacent pair is `["run", "run"]` having a common prefix `"run"` (length 3)
> - Removing index 4:
> - words becomes `["jump", "run", "run", "jump"]`
> - Longest adjacent pair is `["run", "run"]` having a common prefix `"run"` (length 3)

Example 2:

> **Input:** words = ["dog","racer","car"]
>
> **Output:** [0,0,0]
>
> **Explanation:**
>
> - Removing any index results in an answer of 0.

Constraints:

- $1 <= words.length <= 10^5$
- $1 <= words[i].length <= 10^4$
- `words[i]` consists of lowercase English letters.
- The sum of `words[i].length` is smaller than or equal 10^5.

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

Yes No

Accepted 14.319/46.7K | **Acceptance Rate** 30.7%

Topics

Hint 1

Hint 2

Hint 3

Discussion (15)