472. Concatenated Words

Hard 3.1K 253

Companies

Given an array of strings `words` (**without duplicates**), return *all the **concatenated words** in the given list of* `words`.

A **concatenated word** is defined as a string that is comprised entirely of at least two shorter words in the given array.

Example 1:

```
Input: words =
["cat","cats","catsdogcats","dog","dogcatsdog","hippopotamuses","rat","ratcat
Output: ["catsdogcats","dogcatsdog","ratcatdogcat"]
Explanation: "catsdogcats" can be concatenated by "cats", "dog" and
"cats";
"dogcatsdog" can be concatenated by "dog", "cats" and "dog";
"ratcatdogcat" can be concatenated by "rat", "cat", "dog" and "cat".
```

Example 2:

```
Input: words = ["cat","dog","catdog"]
Output: ["catdog"]
```

Constraints:

- `1 <= words.length <= 10^4`
- `1 <= words[i].length <= 30`
- `words[i]` consists of only lowercase English letters.
- All the strings of `words` are **unique**.
- `1 <= sum(words[i].length) <= 10^5`