472. Concatenated Words

QuestionEditorial Solution

My Submissions

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Total Accepted: 2327
Total Submissions: 7744
Difficulty: Hard
Contributors: fishercoder
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Given a list of words (without duplicates), please write a program that returns all 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:

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Input: ["cat","cats","catsdogcats","dog","dogcatsdog","hippopotamuses","rat","ratcatdogcat"]

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".
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Note:

- 1. The number of elements of the given array will not exceed 10,000
- 2. The length sum of elements in the given array will not exceed 600,000.
- 3. All the input string will only include lower case letters.
- 4. The returned elements order does not matter.