

### 1181. Before and After Puzzle

Medium👍 60🔒 135❤️ Add to List🔗 Share

Given a list of `phrases`, generate a list of Before and After puzzles.

A phrase is a string that consists of lowercase English letters and spaces only. No space appears in the start or the end of a phrase. There are no consecutive spaces in a phrase.

*Before and After puzzles* are phrases that are formed by merging two phrases where the **last word of the first phrase** is the same as the **first word of the second phrase**.

Return the Before and After puzzles that can be formed by every two phrases `phrases[i]` and `phrases[j]` where  $i \neq j$ . Note that the order of matching two phrases matters, we want to consider both orders.

You should return a list of **distinct** strings **sorted lexicographically**.

#### Example 1:

**Input:** phrases = ["writing code","code rocks"]  
**Output:** ["writing code rocks"]

#### Example 2:

**Input:** phrases = ["mission statement",  
"a quick bite to eat",  
"a chip off the old block",  
"chocolate bar",  
"mission impossible",  
"a man on a mission",  
"block party",  
"eat my words",  
"bar of soap"]  
**Output:** ["a chip off the old block party",  
"a man on a mission impossible",  
"a man on a mission statement",  
"a quick bite to eat my words",  
"chocolate bar of soap"]

#### Example 3:

**Input:** phrases = ["a","b","a"]  
**Output:** ["a"]

#### Constraints:

- $1 \leq \text{phrases.length} \leq 100$
- $1 \leq \text{phrases}[i].\text{length} \leq 100$

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Hide Hint 1

What if you check every pair of strings (bruteforce)?

Hide Hint 2

For every two strings, check if they can form a puzzle by comparing their last and first words.

```
1 class Solution {
2     public List<String> beforeAndAfterPuzzles(String[] phrases) {
3     }
4 }
5
```