You are given a string array features where features[i] is a single word representing the name of a feature of the latest product you are working on. You made a survey where users reported which features they like. You are given a string array responses, where responses[i] is a string containing space-separated words.

You want to sort the features according to their popularity. More formally, let appearances(word) be the number of is such that responses[i] contains word as a word. Then the xth feature is more popular than the yth feature if appearances(features[x]) > appearances(features[y]).

Return an array sortedFeatures consisting of the feature names sorted by their popularity. If the xth  and ythfeatures have the same popularity where x < y, then you should put the xth feature before the yth one.

**Example 1:**

**Input:** features = ["cooler","lock","touch"], responses = ["i like cooler cooler","lock touch cool","locker like touch"]

**Output:** ["touch","cooler","lock"]

**Explanation:** appearances("cooler") = 1, appearances("lock") = 1, appearances("touch") = 2. Since "cooler" and "lock" both had 1 appearance, "cooler" comes first because "cooler" came first in the features array.

**Example 2:**

**Input:** features = ["a","aa","b","c"], responses = ["a","a aa","a a a a a","b a"]

**Output:** ["a","aa","b","c"]

**Constraints:**

* 1 <= features.length <= 104
* 1 <= features[i].length <= 10
* features contains no duplicates.
* features[i] consists of lowercase letters.
* 1 <= responses.length <= 102
* 1 <= responses[i].length <= 103
* responses[i] consists of lowercase letters and spaces.
* responses[i] contains no two consecutive spaces.
* responses[i] has no leading or trailing spaces.