## 1152. Analyze User Website Visit Pattern Premium Medium ♦ Topics You are given two string arrays username and website and an integer array times tamp. All the given arrays are of the same length and the tuple [username[i], website[i], timestamp[i]] indicates that the user username[i] visited the website website[i] at time timestamp[i].

A pattern is a list of three websites (not necessarily distinct).

visited "leetcode" one more time after that.

 For example, ["home", "away", "love"], ["leetcode", "love", "leetcode"], and ["luffy", "luffy", "luffy"] are all patterns.

in the same order they appeared in the pattern.

The **score** of a **pattern** is the number of users that visited all the websites in the pattern

 For example, if the pattern is ["home", "away", "love"], the score is the number of users x such that x visited "home" then visited "away" and visited "love" after that.

 Similarly, if the pattern is ["leetcode", "love", "leetcode"], the score is the number of users x such that x visited "leetcode" then visited "love" and

 Also, if the pattern is ["luffy", "luffy", "luffy"], the score is the number of users x such that x visited "luffy" three different times at different timestamps.

same largest score, return the lexicographically smallest such pattern. Note that the websites in a pattern **do not** need to be visited *contiguously*, they only

Return the **pattern** with the largest **score**. If there is more than one pattern with the

need to be visited in the order they appeared in the pattern.

["home", "about", "career", "home", "cart", "maps", "home", "home", "a

## ["joe","joe","joe","james","james","james","james","mary","mar y'', "mary"], timestamp = [1,2,3,4,5,6,7,8,9,10], website =

Example 1:

Input: username =

bout","career"]

Output: ["home", "about", "career"]

Explanation: The tuples in this example are:

```
["joe", "home", 1], ["joe", "about", 2], ["joe", "career", 3],
  ["james","home",4],["james","cart",5],["james","maps",6],
  ["james", "home", 7], ["mary", "home", 8], ["mary", "about", 9], and
  ["mary", "career", 10].
 The pattern ("home", "about", "career") has score 2 (joe and
 The pattern ("home", "cart", "maps") has score 1 (james).
 The pattern ("home", "cart", "home") has score 1 (james).
 The pattern ("home", "maps", "home") has score 1 (james).
 The pattern ("cart", "maps", "home") has score 1 (james).
 The pattern ("home", "home", "home") has score 0 (no user
  visited home 3 times).
Example 2:
 Input: username = ["ua","ua","ua","ub","ub","ub"], timestamp =
```

Topics

Hint 2

```
Constraints:
3 <= username.length <= 50</li>
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[1,2,3,4,5,6], website = ["a","b","a","a","b","c"]

• 1 <= timestamp[i] <= 109

1 <= website[i].length <= 10</li>

timestamp.length == username.length

1 <= username[i].length <= 10</li>

Output: ["a","b","a"]

username[i] and website[i] consist of lowercase English letters.

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

website.length == username.length

It is guaranteed that there is at least one user who visited at least three websites.

Yes No

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All the tuples [username[i], timestamp[i], website[i]] are unique.

```
Array Hash Table Sorting
Companies
   0 - 3 months
```

- Amazon 6 6 months ago Uber 4 Spotify 6
- Hint 1 Let's find for every user separately the websites he visited.
- Consider all possible 3-sequences, find the number of distinct users who visited each of them.
- ଠ Hint 3 How to check if some user visited some 3-sequence?
- Store for every user all the 3-sequence he visited.
- Discussion (53)

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