

721. Accounts Merge

Medium

 Topics

 Companies

 Hint

Given a list of `accounts` where each element `accounts[i]` is a list of strings, where the first element `accounts[i][0]` is a name, and the rest of the elements are email addresses.

Now, we would like to merge these accounts. Two accounts definitely belong to the same person if there is some common email to both accounts. That is, if we see `email1@domain.com` in `accounts[i]` and `email2@domain.com` in `accounts[j]`, where `i != j`, then the two accounts belong to the same person. Note that a person may have more than one email address.

After merging the accounts, return the accounts in the following format: the first element of each account is the name, and the rest of the elements are email addresses in alphabetical order.

Example 1:

Input: `accounts = [["John","johnsmith@mail.com","john_newyork@mail.com"], ["John","johnsmith@mail.com","john00@mail.com"], ["Mary","mary@mail.com"]]`

Output: `[["John","john00@mail.com","john_newyork@mail.com","johnsmith@mail.com"], ["Mary","mary@mail.com"]]`

Explanation:

The first and second John's are the same person as they have the common email "johnsmith@mail.com". The third John and Mary are different people as none of their email addresses are used by other accounts. We could return these lists in any order, for example the answer `[['Mary', 'mary@mail.com'], ['John', 'john00@mail.com', 'john_newyork@mail.com', 'johnsmith@mail.com']]` would still be accepted.

Example 2:

Input: `accounts = [["Gabe","Gabe0@m.co","Gabe3@m.co","Gabe1@m.co"], ["Kevin","Kevin3@m.co","Kevin5@m.co","Kevin4@m.co"], ["Ethan","Ethan0@m.co","Ethan4@m.co","Ethan5@m.co"]]`

Output: `[["Ethan","Ethan0@m.co","Ethan4@m.co","Ethan5@m.co"], ["Gabe","Gabe0@m.co","Gabe1@m.co","Gabe3@m.co"], ["Kevin","Kevin3@m.co","Kevin4@m.co","Kevin5@m.co"]]`

Constraints:

- `1 <= accounts.length <= 1000`
- `2 <= accounts[i].length <= 10`
- `1 <= accounts[i][j].length <= 30`
- `accounts[i][0]` consists of English letters.
- `accounts[i][j]` (for `j > 0`) is a valid email.

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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 Hint 1

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