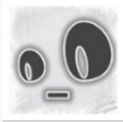




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[面试经验] 死拽铺 电面

海外面经 stripe

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本楼: 1 100% 0
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死拽铺第一轮店面 地里老题

Step 1)

#

Imagine an Airbnb-like vacation rental service, where users in different cities can exchange their apartment with

another user for a week. Each user compiles a wishlist of the apartments they like. These wishlists are ordered,

so the top apartment on a wishlist is that user's first choice for where they would like to spend a vacation.

You will be asked to write part of the code that will help an algorithm find pairs of users who would like to

swap with each other.

#

Given a set of users, each with an *ordered* wishlist of other users' apartments:

#

a's wishlist: c d

b's wishlist: d a c

c's wishlist: a b

d's wishlist: c a b

#

The first user in each wishlist is the user's first-choice for whose apartment they would like to swap into.

Write a function called has_mutual_first_choice() which takes a username and returns true if that user and

another user are each other's first choice, and otherwise returns false.

#

has_mutual_first_choice('a') // true (a and c)

has_mutual_first_choice('b') // false (b's first choice does not *mutually* consider b as their first choice)

#

Then expand the base case beyond just "first" choices, to include all "mutually ranked choices". Write

another function which takes a username and an option called "rank" to indicate the wishlist rank to query



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on. If given a rank of 0, you should check for a first choice pair, as before. If given 1, you should check

for a pair of users who are each others' second-choice. Call your new function has_mutual_pair_for_rank()

and when done, refactor has_mutual_first_choice() to depend on your new function.

#

has_mutual_pair_for_rank('a', 0) // true (a and c)

has_mutual_pair_for_rank('a', 1) // true (a and d are mutually each others' second-choice)

data = {

'a': ['c', 'd'],

'b': ['d', 'a', 'c'],

'c': ['a', 'b'],

'd': ['c', 'a', 'b'],

}

Step 2)

#

Every wishlist entry in the network is either "mutually ranked" or "not mutually ranked" depending on the rank

the other user gives that user's apartment in return.

#

The most common operation in the network is incrementing the rank of a single wishlist entry on a single user.

This swaps the entry with the entry above it in that user's list. Imagine that, when this occurs, the system must

recompute the "mutually-ranked-ness" of any pairings that may have changed.

#

Write a function that takes a username and a rank representing the entry whose rank is being bumped up. Return an

array of the users whose pairings with the given user *would* gain or lose mutually-ranked status as a result of

the change, if it were to take place. Call your function changed_pairings()

#

// if d's second choice becomes their first choice, a and d will no longer be a mutually ranked pair

changed_pairings('d', 1) // returns ['a']

#

// if b's third choice becomes their second choice, c and b will become a mutually ranked pair (mutual second-choices)

changed_pairings('b', 2) // returns ['c']

#

// if b's second choice becomes their first choice, no mutually-ranked pairings are affected

changed_pairings('b', 1) // returns []

#

if d's second choice becomes their first choice, a and d will no longer be a mutually

ranked pair

if b's third choice becomes their second choice, c and b will become a mutually ranked pair (mutual second-choices)

if b's second choice becomes their first choice, no mutually-ranked pairings are affected

新人求加米



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	Jackwithstar	+1	欢迎分享你知道的情况，会让更多积		
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请问楼主这题需要写个class吗？

不用的。

回复

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13 主题 | 30 帖子 | 103 积分

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