2978. Symmetric Coordinates Premium

Medium | Topics | Companies

SQL Schema > Pandas Schema >

Table: `Coordinates`

```
+-------------+------+
| Column Name | Type |
+-------------+------+
| X           | int  |
| Y           | int  |
+-------------+------+
Each row includes X and Y, where both are integers. Table may contain duplicate values.
```

Two coordindates `(X1, Y1)` and `(X2, Y2)` are said to be **symmetric** coordintes if `X1 == Y2` and `X2 == Y1`.

Write a solution that outputs, among all these **symmetric coordintes**, only those **unique** coordinates that satisfy the condition `X1 <= Y1`.

Return *the result table ordered by* `X` *and* `Y` *(respectively) in* ***ascending order***.

The result format is in the following example.

Example 1:

Input:
Coordinates table:

X	Y
20	20
20	20
20	21
23	22
22	23
21	20

Output:

x	y
20	20
20	21
22	23

Explanation:
- (20, 20) and (20, 20) are symmetric coordinates because, X1 == Y2 and X2 == Y1. This results in displaying (20, 20) as a distinctive coordinates.
- (20, 21) and (21, 20) are symmetric coordinates because, X1 == Y2 and X2 == Y1. However, only (20, 21) will be displayed because X1 <= Y1.
- (23, 22) and (22, 23) are symmetric coordinates because, X1 == Y2 and X2 == Y1. However, only (22, 23) will be displayed because X1 <= Y1.

The output table is sorted by X and Y in ascending order.

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

Yes No

Accepted 1.7K | Submissions 4.1K | Acceptance Rate 40.7%

Topics

Database

Companies

0 - 3 months

Mitsogo 10

Discussion (3)

Copyright © 2024 LeetCode All rights reserved