Prepare > SQL > Advanced Join > Symmetric Pairs

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You are given a table, Functions, containing two columns: X and Y.

Problem

Column	Type
X	Integer
Y	Integer

Submissions

Two pairs (X_1, Y_1) and (X_2, Y_2) are said to be symmetric pairs if $X_1 = Y_2$ and $X_2 = Y_1$.

Write a query to output all such symmetric pairs in ascending order by the value of X. List the rows such that $X_1 \le Y_1$.

Leaderboard

Sample Input

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

Discussions

Sample Output

```
20 20
20 21
22 23
```

MS SQL Server ∨ ⚙

```
2  SELECT a.x, a.y
3  FROM functions AS a
4  JOIN functions AS b ON a.x = b.y AND a.y = b.x
5  GROUP BY a.x, a.y
6  HAVING COUNT(a.x) > 1 OR a.x < a.y
7  ORDER BY a.x;
```

Line: 7 Col: 14

⬆ Upload Code as File   **Run Code**   **Submit Code**

Congratulations!

You have passed the sample test cases. Click the submit button to run your code against all the test cases.

⊘ **Sample Test case 0**

Your Output (stdout)

1	2 24
2	4 22
3	5 21
4	6 20
5	8 18
6	9 17
7	11 15
8	13 13