1459. Rectangles Area Premium

SQL Schema > Pandas Schema > Table: Points

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int
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id is the column with unique values for this table.
Each point is represented as a 2D coordinate (x_value, y_value).

Write a solution to report all possible axis-aligned rectangles with a non-zero area that can be formed by any two points from the Points table.

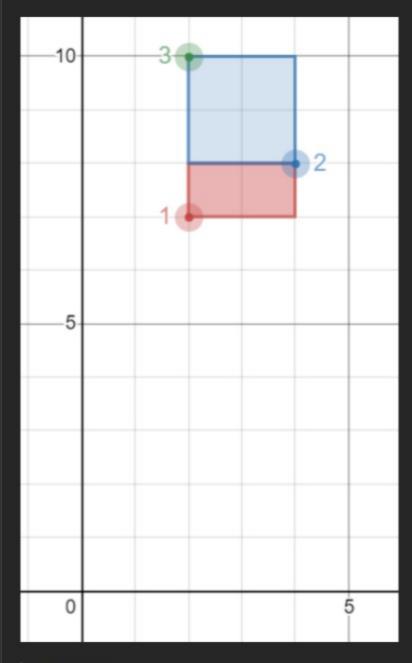
Each row in the result should contain three columns (p1, p2, area) where:

- p1 and p2 are the id's of the two points that determine the opposite corners of a rectangle.
- area is the area of the rectangle and must be **non-zero**.

Return the result table ordered by area in descending order. If there is a tie, order them by p1 in ascending order. If there is still a tie, order them by p2 in ascending order.

The result format is in the following table.

Example 1:



Input:

Points table:

id	x_value	y_value
1	2 4	7
3	2	10
Output:	+	++
p1	p2	area
2	3	4
1	2	2

Explanation:

The rectangle formed by p1 = 2 and p2 = 3 has an area equal to |4-2| * |8-10| = 4. The rectangle formed by p1 = 1 and p2 = 2 has an area equal to |2-4| * |7-8| = 2. Note that the rectangle formed by p1 = 1 and p2 = 3 is invalid because the area is 0.

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Discussion (2)

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