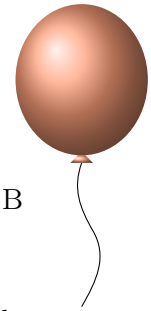
C The Squares Strike Back



Time limit: 1.0s
Memory limit: 1024MB

Marco saw n points on the plane, where the i-th point has coordinates (x_i, y_i). He immediately asked himself the most natural question: "In how many ways can I choose two distinct points such that the first is the bottom-left corner, and the second is the top-right corner of some square with sides parallel to the coordinate axes?"

Here, the bottom-left corner of a square is defined as the point with the smallest x and y coordinates, and the top-right corner is the point with the largest x and y coordinates.

However, there were too many points, and Marco quickly gave up. Help him answer the question.

Input

The first line contains an integer n, the number of points on the plane ($1 \leq n \leq 10^5$).

Then follow n lines. The i-th of them contains two integers, x_i and y_i, representing the coordinates of the i-th point ($0 \leq x_i, y_i \leq 10^9$). No two points coincide.

Output

On the only line, print a single integer: the number of distinct pairs of points that can be chosen so that the first is the bottom-left corner and the second is the top-right corner of some square with sides parallel to the coordinate axes.

Samples

Sample input 1	Sample output 1
4 0 0 2 3 5 6 4 4	2

Sample input 2	Sample output 2
3 0 0 0 2 2 0	0