

Problem A. Star triangles

Input file: triangles.in
Output file: triangles.out
Time limit: 2 seconds
Memory limit: 256 megabytes
Detailed Feedback: full

Zhomart likes watching the stars and construct a variety of geometric shapes from them. The sky is represented in the form of the Cartesian coordinate system, and the stars are represented by points on it. At this moment Zhomart interested in the question: how many different right triangles whose legs are parallel to the axes, you can create with the help of stars in the sky.

Input

In the first line of the input line you are given N — the number of stars on the sky ($3 \leq N \leq 300000$). Each of the next N lines contains integer X and Y ($|X, Y| \leq 10^9$) — coordinates of the appropriate star.

Output

Print one number – the answer to the question.

Examples

triangles.in	triangles.out
3 0 0 1 0 0 1	1
4 0 0 1 0 0 1 1 1	4

For this problem you will have full feedback.

30% of tests contain $N \leq 100$.