## Right Triangle Counting

N points are placed in the coordinate plane. Write a program which calculates in how many ways a right triangle can be formed by three of the given points. A right triangle is one in which one of the angles is 90 degrees.

## Input

The first line of input contains an integer $N(3<=N<=1500)$, the number of points. Each of the following N lines contains the coordinates of one point, two integers separated by a space. The coordinates will be between $-10^{\wedge} 9$ and $10^{\wedge} 9$. No two points will be located at the same coordinates.

## Output

Output the number of right triangles.

## Sample

## input

5
-1 1
-1 0
00
10
11
output
7
input
4
50
26
86
57
output
0

