## B. Number of Triplets

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input

output: standard output

You are given n points on a plane. All points are different.

Find the number of different groups of three points (A, B, C) such that point B is the middle of segment AC.

The groups of three points are considered unordered, that is, if point B is the middle of segment AC, then groups (A, B, C) and (C, B, A) are considered the same.

## Input

The first line contains a single integer n ( $3 \le n \le 3000$ ) — the number of points.

Next n lines contain the points. The i-th line contains coordinates of the i-th point: two space-separated integers  $x_i, y_i$  (  $-1000 \le x_i, y_i \le 1000$ ).

It is guaranteed that all given points are different.

## **Output**

Print the single number — the answer to the problem.

## **Examples**

```
input
3
1 1
2 2
3 3
output
1
```

```
input

3
0 0
-1 0
0 1

output
0
```