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Shape Finder

 by [matfah](#)

Problem

Submissions

Discussions

Dory is marveling at the beautiful designs in the Marine Life Institute. On one particular wall, she sees a lot of dots placed on a grid. Dory likes patterns (it helps her remember!), so she was wondering how many squares she could find on the grid. Can you help her?

<https://drive.google.com/file/d/0BxxolsFkwnDqMVhTsm9id3g0MUU/view?usp=sharing>

Input Format

First line will contain a single integer n . The next n lines will contain two integers each separated by spaces, representing the x and y coordinates of a point, respectively.

Constraints

The coordinates of each point will be between -1000 and 1000 . No point will be repeated. $0 \leq n \leq 500$.

Output Format

The number of squares that can be found from the n points.

Sample Input 0

```
5
-1 0
-1 1
0 0
2 1
2 2
```

Sample Output 0

```
0
```

Sample Input 1

```
10
-2 0
-1 -2
-1 0
0 -2
0 0
0 2
1 1
2 -2
2 0
2 2
```

Sample Output 1

3

[f](#) [t](#) [in](#)



Submissions: 3




Max Score: 3

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More

Current Buffer (saved locally, editable)  

BASH   

1

 [Upload Code as File](#) ☐ [Test against custom input](#)

Run Code

Submit Code