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Right Triangles

Problem Code: TRIANGLE



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Given N points in 2D plane, calculate the number of right triangles that can be formed using these N points such that their shorter sides are parallel to the coordinate axis. Two points should be considered different even if they have same x and y co-ordinates.

All Submissions (/DI17R003/status/TRIANGLE)

Successful Submissions

Input/Output

You don't have to read or write anything from/to stdin and stdout respectively. Use the template code provided in the editor on the submission page, that does the IO for you.

In the template, you have to write a function that takes 3 arguments, N and two 1 dimensional array, containing the X and Y coordinates of the ith point respectively and returns the number of right triangles that can be formed.

Function Signature:

long long rt_triangle(int N, int A[50000], int B[50000]);

The template code executes the function submitted T times with different arguments.

Constraints

```
0 < T <= 50
0 < N <= 15000
-50000 <= X cord, Y cord <= 50000
```

Example

```
rt_triangle(4, {1, -5, -2, -2}, {3, -2, 4, 1}) should return 0.
rt_triangle(4, {0, -1, -1, 1}, {1, -2, 1, -2}) should return 0.
```

Sample Input File

```
1 3
-5 -2
-2 -4
-2 1
0 1
-1 -2
-1 1
1 -2
```

Output



Author: directi_campus (/users/directi_campus)

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Date Added: 6-08-2012 Time Limit: 0.955414 secs Source Limit: 50000 Bytes

C, CPP 4.3.2, CPP 6.3, CPP14, JAVA, PYTH, PYTH 3.5 Languages:

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CodeChef was created as a platform to help programmers make it big in the world of algorithms, **computer programming** and **programming contests**. At CodeChef we work hard to revive the geek in you by hosting a **programming contest** at the start of the month and another smaller programming challenge in the middle of the month. We also aim to have training sessions and discussions related to **algorithms**, **binary search**, technicalities like **array size** and the likes. Apart from providing a platform for **programming competitions**, CodeChef also has various algorithm tutorials and forum discussions to help those who are new to the world of **computer programming**.

<u>Practice Section (https://www.codechef.com/problems/easy)</u> - A Place to hone your 'Computer Programming Skills'

Try your hand at one of our many practice problems and submit your solution in a language of your choice. Our **programming contest** judge accepts solutions in over 35+ programming languages. Preparing for coding contests were never this much fun! Receive points, and move up through the CodeChef ranks. Use our practice section to better prepare yourself for the multiple **programming challenges** that take place through-out the month on CodeChef.

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Here is where you can show off your **computer programming skills**. Take part in our 10 day long monthly coding contest and the shorter format Cook-off **coding contest**. Put yourself up for recognition and win great prizes. Our **programming contests** have prizes worth up to INR 20,000 (for Indian Community), \$700 (for Global Community) and lots more CodeChef goodies up for grabs.

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Campus Chapters (http://www.codechef.com/campus_chapter/about)

Domain Registration in India (http://www.bigrock.in/) and Web Hosting (http://www.bigrock.com/web-hosting/) powered by BigRock