



## intersection

- Time limit: 1 second
- Memory limit: 256 MB

You are given  $n$  lines. There are several intersections such that coordinates  $x$  between them  $a$  and  $b$  is?

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### Input

In the first line of input number  $n$  come.

$$1 \leq n \leq 300000$$

At  $n$  The next line is two numbers in each line  $a_i$  and  $b_i$ . It is stated that in order of coordinates  $y$  The intersection point of the  $i$ -th line with the line  $x = a$  and  $x = b$  are.



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$$-1000000000 \leq a_i, b_i \leq 1000000000$$

It is guaranteed that no three lines are congruent.

## Output

Print the number of intersections in the output.

## Example

### Input

```
3
1 101
-234 234
567 765
```

### Output

```
1
```

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