



grand theft

Heshmat Hagar intends to steal from a marble shop. To carry out a perfect robbery, first of all, he must know the location of the CCTV cameras in this store. He has obtained valuable information by doing a lot of research with his X-ray equipped satellite. Because he researched from above and with a satellite, he sees the store as a Cartesian coordinate plane, where the south and west walls of the store are the x and y axes of this coordinate plane. There are 4 cameras in this store, the coordinates of these four cameras are the vertices of a rectangle whose sides are parallel to the coordinate axes. Heshmat managed to get the coordinates of 3 of the cameras, but despite his advanced technologies, he could not get the location of the fourth camera and he wants you to do this.

Input

The input contains 3 lines. In each line, the correct coordinates of one of the three cameras found, whose x and y are separated by a distance, are given. It is guaranteed that these three points are 3 consecutive vertices of a rectangle with an area greater than 0.

$$-100 \leq x, y \leq 100$$



Questions

100

The broken heart of
Genghis

100

grand theft

100

Pythagorean numbers

150

!!!R

150

second degree equation

100

Ojulat

200

head of water

All submissions

Final submissions

Scoreboard

Output

In the only output line, the coordinates of the fourth point, whose components are separated by a space, are printed.

Sample input 1

```
1 2
1 4
3 4
```

Sample output 1

```
3 2
```

POST AN ANSWER TO THIS QUESTION

.The training period is over

with Quera

Work with us
[contact us](#)

events

Kodak
[skill up](#)

Sources

Quora blog
[Programmers' salary calculator](#)

Products

Teaching programming
[Recruitment ads](#)



[contact us](#)
[about us](#)
[Terms and Conditions](#)
[Sponsorship of competitions](#)

[Skill up](#)
[Trainee exhibition](#)
[Tracey](#)

[Programmers salary calculator](#)
[Statistics of the programming world](#)
[subscribe to newsletter](#)

[recruitment ads](#)
[Programming questions](#)
[Competitions](#)
[classes](#)
[Employment platform](#)
[Quera Jr](#)

