



Cetvat

Time Limit 1 second

Problem

Mirko needs to choose four points in the plane so that they form a rectangle with sides parallel to the axes.

He has already chosen three points and is confident that he hasn't made a mistake, but is having trouble locating the last point. Help him.

Input

Each of the three points already chosen will be given on a separate line. All coordinates will be integers between 1 and 1000.

Output

Output the coordinates of the fourth vertex of the rectangle.

Sample Input 1	Sample Output 1
5 5 5 7 7 5	7 7

Sample Input 2	Sample Output 2
30 20 10 10 10 20	30 10