Rectangle

Given a rectangle. The coordinates of its vertexes are natural numbers and are listed clockwise in the input.

Calculate how many points with natural coordinates are inside the rectangle.

Task. Write an algorithm to solve this problem.

Examples.

Input	Output
1 1 10 1 10 -5 1 -5	40

Constraints. $-100 \leq x_i, y_i \leq 100$.