Problem 1

Area of Rectangle

Given the Cartesian plane coordinates for the opposite corners of a rectangle (x1,y1) and (x2,y2), calculate the area of the rectangle.

The input file (DATA1) will contain five lines of data. Each line will contain four integer values, x1,y1, x2 and y2 representing the coordinates. -32768 <= x1, y1, x2, y2 <= 32767.

The output file (OUT1) will contain five lines of data, corresponding to the input file. Each line will contain the area of the rectangle in square units.

Sample Input (Only three lines given)

```
2 4 4 8
1 1 2 2
10 10 100 100
```

Sample Output

```
8
1
8100
```