Rectangle Area

Given the coordinates of two rectilinear rectangles in a 2D plane, return the total area covered by the two rectangles.

The first rectangle is defined by its bottom-left corner (ax1, ay1) and its top-right corner (ax2, ay2).

The second rectangle is defined by its bottom-left corner (bx1, by1) and its top-right corner (bx2, by2).

Constraints:

 $-10^4 \le ax1 \le ax2 \le 10^4$.

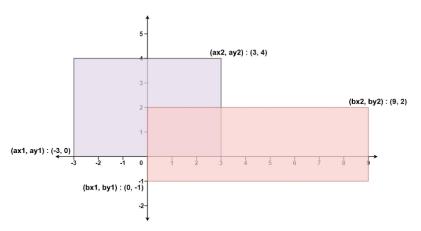
 $-10^4 \le \text{ay1} \le \text{ay2} \le 10^4$.

 $-10^4 \le bx1 \le bx2 \le 10^4$.

 $-10^4 \le \text{by1} \le \text{by2} \le 10^4$.

Example:

Input:	ax1 = -3, $ay1 = 0$, $ax2 = 3$, $ay2 = 4$, $bx1 = 0$, $by1 = -$
-3 0 3 4 0 -1 9 2	1, bx2 = 9, by2 = 2
Output:	45
45	



Input:	ax1 = -2, $ay1 = -2$, $ax2 = 2$, $ay2 = 2$, $bx1 = -2$, $by1 = -2$
-2 -2 2 2 -2 -2 2 2	-2, bx2 = 2, by2 = 2
Output:	16
16	