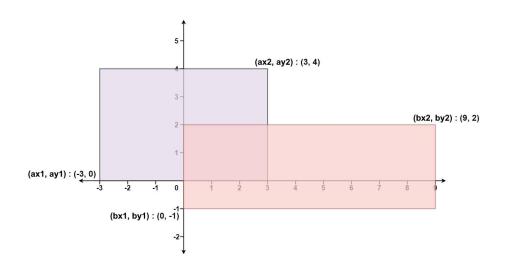
## 223. Rectangle Area

- 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).

## Example 1:



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

Output: 45

## Example 2:

**Input:** ax1 = -2, ay1 = -2, ax2 = 2, ay2 = 2, bx1 = -2, by1 = -2, bx2 = 2, by2 = 2

Output: 16

## **Constraints:**

- $-104 \le ax1 \le ax2 \le 104$
- $-104 \le ay1 \le ay2 \le 104$
- $-104 \le bx1 \le bx2 \le 104$
- $-104 \le by1 \le by2 \le 104$