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C++

Autocomplete

i

223. Rectangle Area

Medium

465

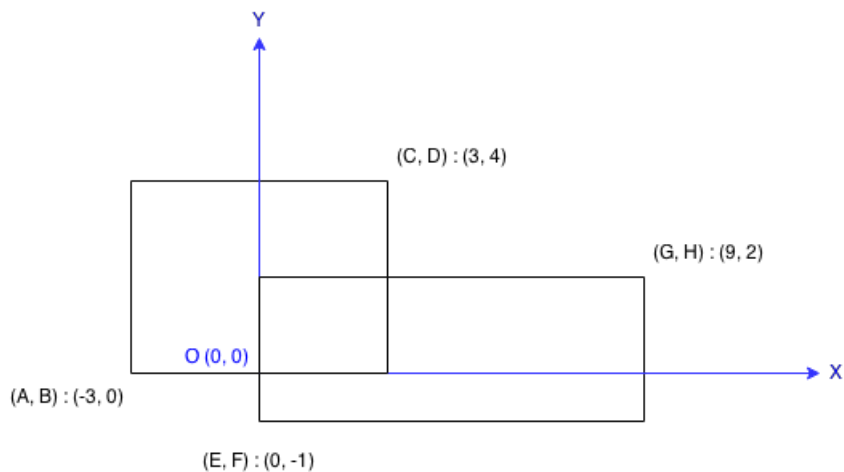
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Find the total area covered by two **rectilinear** rectangles in a **2D** plane.

Each rectangle is defined by its bottom left corner and top right corner as shown in the figure.



Example:

Input: A = -3, B = 0, C = 3, D = 4, E = 0, F = -1, G = 9, H = 2
Output: 45

```

1  class Solution {
2  public:
3      int computeArea(int A, int B, int C, int D, int E,
4                      int F, int G, int H) {
5          int area1=0, area2=0, areaI=0;
6          //compute if the given rectangles are FULLY
7          overlapping
8          if (A==E && B==F && C==G && D==H)
9          {
10             area1 = abs((C-A) * (D-B));
11             area2 = 0;
12         }
13         //compute if the given rectangles are not
14         overlapping
15         else if (E>=C || A>=G)
16         { //In this case rectangles are not
17             overlapping
18             area1 = abs((C-A) * (D-B));
19             area2 = abs((G-E) * (H-F));
20         }
21         else if (F>=D || B>=H)
22         { //In this case rectangles are not
23             overlapping
24             area1 = abs((C-A) * (D-B));
25             area2 = abs((G-E) * (H-F));
26         }
27         //following is applicable only if they are
28         overlapping rectangle
29         else
30         {
31             //computing area of the first and second
32             rectangle
33             area1 = abs((C-A) * (D-B));

```

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Console

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