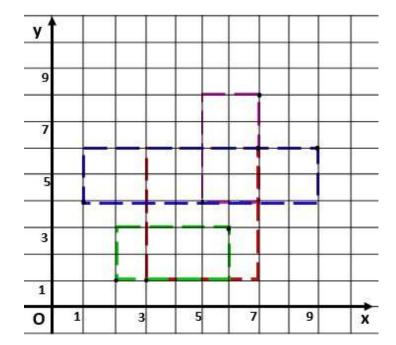


Plane compression method

Cost: 12 | Solved: 13

Memory limit: 256 MBs		
Time limit: 1 s		
Input: input.txt		
Output: output.txt		
Task:		
You are given N rectangles with vertexes at points with integer coordinates and sides parallel to axis x and axis y .		
You have to find the maximal number of crossing rectangles.		
Keep in mind that rectangles also cross if they have coincident vertexes.		
Input:		
The first line contains a natural N ($1 \le N \le 10^5$) – the quantity of rectangles.		
Coordinates of rectangles' vertexes are given in the next $N*2$ lines. For each rectangle the first line contains coordinates of lower-left vertex, the second – of upper-right vertex (-1000 $\leq x$, $y \leq$ 1000).		
Keep in mind that a line segment and a point are also a rectangle.		
Output:		
The maximal number of crossing rectangles.		
Example:		
Input	Output	

2	
11	
2 2	0
33	
4 4	
2	
1 1	
2 2	2
1 1	
2 2	
4	
1 4	
9 6	(8)
2 1	\frac{8k/16'}{1}
63	3 8KS/ta
3 1	# = #
7 6	iite df
5 4	en la company de
7 8	ω Report a bug (/en/webform-feedback/nois?submittedfrom=tasks/task/16163)
An example:	
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The maximal amount of crossing rectangles here is 3 (the red, blue and violet).