

05 Hr 57 Min  
21 Sec

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# Coding Area

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ONLINE EDITOR (F)

## Overlapping Boxes

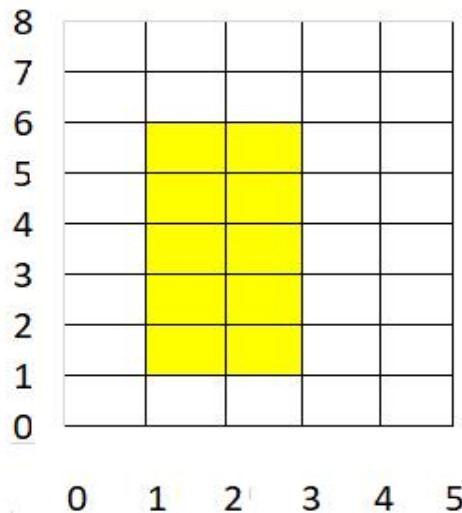
### + Problem Description

There are N rectangular boxes( $B_i$ ) and each has a special value(Power)  $P_i$ . These rectangular boxes are placed in the first quadrants of the x-y plane.

These boxes are represented by two coordinates, bottom-left and top-right.

Example:

Below rectangle(highlighted with yellow) is represented as (1,1) i.e. bottom-left and (3,6) i.e. top-right



If two boxes( $B_1$  &  $B_2$  with special value  $P_1$  &  $P_2$  respectively) overlap each other, then the special value of the common area is  $P_1 + P_2$ .

Find the total area with maximum Power.

### + Constraints

$$1 \leq N \leq 10^5$$

$0 \leq x, y \leq 10^4$  i.e. the lowest co-ordinate of bottom-left corner is (0,0) and the highest coordinate of top-right corner is (10000,10000)

$$1 \leq P \leq 100$$

### + Input Format

The first line contains the number of boxes N

In next N lines, each line contains five integers where

The first two integers represent the (x, y) coordinates of bottom-left corner

Next two integers represent the (x, y) coordinates of top-right corner respectively

The last integer represents the special value or power, P

### + Output

Total area with maximum power

### + Test Case

### + Explanation

#### Example 1

2

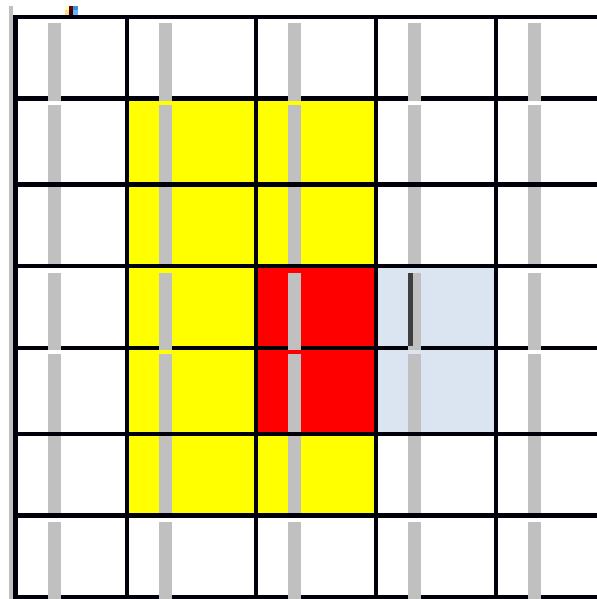
1 1 3 6 5

2 2 4 4 8

Sample output #1

2

Explanation #1



The area highlighted with red has the highest value of P and its area is 2

#### Example 2

5

21 46 38 56 13

26 28 47 38 8

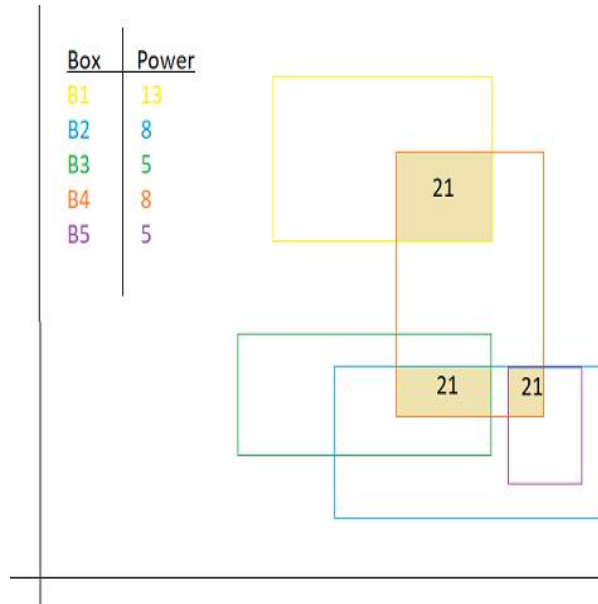
18 32 38 38 5

31 35 42 51 8

39 31 45 38 5

output

## Explanation #1



Above image is only for illustration. Not a scaled image.

Total Area with  $P=21$  is 65.

## Upload Solution [ Question : F ]

☐ I, **chukka bharath** confirm that the answer submitted is my own.

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