

# Social Master - II

Time: 1 sec / Memory: 256 MB

## Problem Statement

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There are  $n$  events you can attend.

For each event  $s$ , you know its starting date  $a(s)$ , its ending date  $b(s)$ , and **the reward points  $p(s)$  you would get if you attend the event.**

You cannot attend more than one event in each day. Furthermore, once you attend an event, you will stay in that event until it ends.

What is the maximum **reward points** you can get?

## Input

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The first input line contains an integer  $n$ : the number of events.

After this, there are  $n$  lines. Each line has three integers  $a$ ,  $b$ , and  $p$ : the starting date, the ending date, and the reward point of the event.

## Output

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Print one integer: the maximum **reward points** you can get.

## Constraints

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$$1 \leq n \leq 2 \cdot 10^5$$

$$1 \leq a \leq b \leq 10^9$$

$$1 \leq p \leq 10^9$$

## Example

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Input:

4  
2 4 4  
3 6 6  
6 8 2  
5 7 3

Output:

7