Problem C. Projects

Time limit 1000 ms

Mem limit 524288 kB

There are n projects you can attend. For each project, you know its starting and ending days and the amount of money you would get as reward. You can only attend one project during a day.

What is the maximum amount of money you can earn?

Input

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

After this, there are n lines. Each such line has three integers a_i, b_i, and p_i: the starting day, the ending day, and the reward.

Output

Print one integer: the maximum amount of money you can earn.

Constraints

- $1 \leq n \leq 2 \cdot 10^5$
- $1 \leq a_i \leq b_i \leq 10^9$
- $1 \leq p_i \leq 10^9$

Example

Input	Output
4 2 4 4 3 6 6 6 8 2 5 7 3	7