2164. Two Best Non-Overlapping Events

Difficulty: Medium

https://leetcode.com/problems/two-best-non-overlapping-events

You are given a **0-indexed** 2D integer array of events where events[i] = [startTime_i, endTime_i, value_i]. The ith event starts at startTime_i and ends at endTime_i, and if you attend this event, you will receive a value of value_i. You can choose **at most two non-overlapping** events to attend such that the sum of their values is **maximized**.

Return this maximum sum.

Note that the start time and end time is **inclusive**: that is, you cannot attend two events where one of them starts and the other ends at the same time. More specifically, if you attend an event with end time t, the next event must start at or after t + 1.

Example 1:

Time	1	2	3	4	5
Event 0		2			
Event 1					2
Event 2			3		

Input: events = [[1,3,2],[4,5,2],[2,4,3]]

Output: 4

Explanation: Choose the green events, 0 and 1 for a sum of 2 + 2 = 4.

Example 2:

Time	1	2	3	4	5
Event 0	2				
Event 1				2	2
Event 2			5		

Input: events = [[1,3,2],[4,5,2],[1,5,5]]

Output: 5

Explanation: Choose event 2 for a sum of 5.

Example 3:

Time	1	2	3	4	5	6
Event 0	3					
Event 1	1					
Event 2						5

Input: events = [[1,5,3],[1,5,1],[6,6,5]]

Output: 8

Explanation: Choose events 0 and 2 for a sum of 3 + 5 = 8.

Constraints:

- 2 <= events.length <= 10^5
- events[i].length == 3
- 1 <= startTime_i <= endTime_i <= 10⁹
- 1 <= value_i <= 10^6