

5660. Maximum Number of Events That Can Be Attended II

My Submissions (/contest/biweekly-contest-45/problems/maximum-number-of-events-that-can-be-attended-ii/submissions/)

Back to Contest (/contest/biweekly-contest-45/)

You are given an array of `events` where `events[i] = [startDayi, endDayi, valuei]`. The  $i^{th}$  event starts at `startDayi` and ends at `endDayi`, and if you attend this event, you will receive a value of `valuei`. You are also given an integer `k` which represents the maximum number of events you can attend.

You can only attend one event at a time. If you choose to attend an event, you must attend the **entire** event. Note that the end day is **inclusive**: that is, you cannot attend two events where one of them starts and the other ends on the same day.

Return the **maximum sum** of values that you can receive by attending events.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Hard

Example 1:

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

**Input:** `events = [[1,2,4],[3,4,3],[2,3,1]]`, `k = 2`  
**Output:** `7`  
**Explanation:** Choose the green events, 0 and 1 (0-indexed) for a total value of `4 + 3 = 7`.

Example 2:

Time	1	2	3	4
Event 0	4			
Event 1			3	
Event 2		10		

**Input:** `events = [[1,2,4],[3,4,3],[2,3,10]]`, `k = 2`  
**Output:** `10`  
**Explanation:** Choose event 2 for a total value of `10`. Notice that you cannot attend any other event as they overlap, and that you do **not** have to attend `k` events.

Example 3:

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

**Input:** `events = [[1,1,1],[2,2,2],[3,3,3],[4,4,4]]`, `k = 3`  
**Output:** `9`  
**Explanation:** Although the events do not overlap, you can only attend 3 events. Pick the highest valued three.

Constraints:

- $1 \leq k \leq \text{events.length}$
- $1 \leq k * \text{events.length} \leq 10^6$
- $1 \leq \text{startDay}_i \leq \text{endDay}_i \leq 10^9$
- $1 \leq \text{value}_i \leq 10^6$

JavaScript

```
1 /**
2  * @param {number[][]} events
3  * @param {number} k
```

```
4  * @return {number}
5  */
6  var maxValue = function(events, k) {
7
8  };
```

☐ Custom Testcase[Use Example Testcases](#)[Run](#)[Submit](#)

Copyright © 2021 LeetCode | [Help Center \(/support\)](#) | [Jobs \(/jobs\)](#) | [Bug Bounty \(/bugbounty\)](#) | [Students \(/student\)](#) | [Terms \(/terms\)](#) | [Privacy Policy \(/privacy\)](#)

 [United States \(/region\)](#)