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731. My Calendar II

Medium 1278 129 Add to List Share

You are implementing a program to use as your calendar. We can add a new event if adding the event will not cause a **triple booking**.

A **triple booking** happens when three events have some non-empty intersection (i.e., some moment is common to all the three events.).

The event can be represented as a pair of integers `start` and `end` that represents a booking on the half-open interval $[start, end)$, the range of real numbers x such that $start \leq x < end$.

Implement the `MyCalendarTwo` class:

- `MyCalendarTwo()` Initializes the calendar object.
- `boolean book(int start, int end)` Returns `true` if the event can be added to the calendar successfully without causing a **triple booking**. Otherwise, return `false` and do not add the event to the calendar.

Example 1:

Input

```
["MyCalendarTwo", "book", "book", "book", "book", "book", "book"]
[[], [10, 20], [50, 60], [10, 40], [5, 15], [5, 10], [25, 55]]
```

Output

```
[null, true, true, true, false, true, true]
```

Explanation

```
MyCalendarTwo myCalendarTwo = new MyCalendarTwo();
myCalendarTwo.book(10, 20); // return True, The event can be booked.
myCalendarTwo.book(50, 60); // return True, The event can be booked.
myCalendarTwo.book(10, 40); // return True, The event can be double
booked.
myCalendarTwo.book(5, 15); // return False, The event cannot be
booked, because it would result in a triple booking.
myCalendarTwo.book(5, 10); // return True, The event can be booked,
as it does not use time 10 which is already double booked.
myCalendarTwo.book(25, 55); // return True, The event can be booked,
as the time in [25, 40) will be double booked with the third event,
the time [40, 50) will be single booked, and the time [50, 55) will
be double booked with the second event.
```

Constraints:

- $0 \leq \text{start} < \text{end} \leq 10^9$
- At most 1000 calls will be made to `book`.

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```

1 class MyCalendarTwo {
2
3     public MyCalendarTwo() {
4
5     }
6
7     public boolean book(int start, int end) {
8
9     }
10 }
11
12 /**
13  * Your MyCalendarTwo object will be instantiated and called as such:
14  * MyCalendarTwo obj = new MyCalendarTwo();
15  * boolean param_1 = obj.book(start,end);
16  */

```