You are given an integer n. There are n rooms numbered from 0 to n - 1.

You are given a 2D integer array meetings where meetings[i] = [starti, endi] means that a meeting will be held during the **half-closed** time interval [starti, endi). All the values of starti are **unique**.

Meetings are allocated to rooms in the following manner:

1. Each meeting will take place in the unused room with the **lowest** number.
2. If there are no available rooms, the meeting will be delayed until a room becomes free. The delayed meeting should have the **same** duration as the original meeting.
3. When a room becomes unused, meetings that have an earlier original **start** time should be given the room.

Return *the* ***number*** *of the room that held the most meetings.* If there are multiple rooms, return *the room with the* ***lowest*** *number.*

A **half-closed interval** [a, b) is the interval between a and b **including** a and **not including** b.

**Example 1:**

Input: n = 2, meetings = [[0,10],[1,5],[2,7],[3,4]]  
Output: 0  
Explanation:  
- At time 0, both rooms are not being used. The first meeting starts in room 0.  
- At time 1, only room 1 is not being used. The second meeting starts in room 1.  
- At time 2, both rooms are being used. The third meeting is delayed.  
- At time 3, both rooms are being used. The fourth meeting is delayed.  
- At time 5, the meeting in room 1 finishes. The third meeting starts in room 1 for the time period [5,10).  
- At time 10, the meetings in both rooms finish. The fourth meeting starts in room 0 for the time period [10,11).  
Both rooms 0 and 1 held 2 meetings, so we return 0.

**Example 2:**

Input: n = 3, meetings = [[1,20],[2,10],[3,5],[4,9],[6,8]]  
Output: 1  
Explanation:  
- At time 1, all three rooms are not being used. The first meeting starts in room 0.  
- At time 2, rooms 1 and 2 are not being used. The second meeting starts in room 1.  
- At time 3, only room 2 is not being used. The third meeting starts in room 2.  
- At time 4, all three rooms are being used. The fourth meeting is delayed.  
- At time 5, the meeting in room 2 finishes. The fourth meeting starts in room 2 for the time period [5,10).  
- At time 6, all three rooms are being used. The fifth meeting is delayed.  
- At time 10, the meetings in rooms 1 and 2 finish. The fifth meeting starts in room 1 for the time period [10,12).  
Room 0 held 1 meeting while rooms 1 and 2 each held 2 meetings, so we return 1.

**Constraints:**

* 1 <= n <= 100
* 1 <= meetings.length <= 105
* meetings[i].length == 2
* 0 <= starti < endi <= 5 \* 105
* All the values of starti are **unique**.