₩ wutrack/ing, apply today! (/) Explore Problems(/problemset/all/) Mock(/interview/) Contest Discuss(/discuss/) Storedata=eyJ1cmwiOiAiaHR0cHM6Ly9sZWV0Y29kZS5jb20vam9icy8_cmVmPX

5733. Closest Room

My Submissions (/contest/biweekly-contest-51/problems/closest-room/submissions/) Back to Contest (/contest/biweekly-contest-51/) There is a hotel with n rooms. The rooms are represented by a 2D integer array rooms where rooms [i] = [roomId_i, User Accepted: \mathtt{size}_i] denotes that there is a room with room number \mathtt{roomId}_i and \mathtt{size} equal to \mathtt{size}_i . Each \mathtt{roomId}_i is guaranteed to be unique. User Tried: You are also given k queries in a 2D array queries where queries $[j] = [preferred_j, minSize_j]$. The answer to the Total Accepted: jth query is the room number id of a room such that:

- The room has a size of $\textbf{at least} \ \mbox{minSize}_j$, and
- $abs(id preferred_i)$ is **minimized**, where abs(x) is the absolute value of x.

If there is a tie in the absolute difference, then use the room with the smallest such id. If there is no such room, the answer

Return an array answer of length k where answer[j] contains the answer to the jth query.

Example 1:

```
Input: rooms = [[2,2],[1,2],[3,2]], queries = [[3,1],[3,3],[5,2]]
Output: [3,-1,3]
Explanation: The answers to the queries are as follows:
Query = [3,1]: Room number 3 is the closest as abs(3-3)=0, and its size of 2 is at least 1. The answer is 3.
Query = [3,3]: There are no rooms with a size of at least 3, so the answer is -1.
Query = [5,2]: Room number 3 is the closest as abs(3-5)=2, and its size of 2 is at least 2. The answer is 3.
```

Example 2:

```
Input: rooms = [[1,4],[2,3],[3,5],[4,1],[5,2]], queries = [[2,3],[2,4],[2,5]]
Output: [2,1,3]
Explanation: The answers to the queries are as follows:
Query = [2,3]: Room number 2 is the closest as abs(2-2) = 0, and its size of 3 is at least 3. The answer is 2.
Query = [2,4]: Room numbers 1 and 3 both have sizes of at least 4. The answer is 1 since it is smaller.
Query = [2,5]: Room number 3 is the only room with a size of at least 5. The answer is 3.
```

Constraints:

```
• n == rooms.length
• 1 <= n <= 10<sup>5</sup>
   k == gueries.length
• 1 \le k \le 10^4
• 1 <= roomId<sub>i</sub>, preferred<sub>i</sub> <= 10<sup>7</sup>
• 1 <= size<sub>i</sub>, minSize<sub>i</sub> <= 10^7
```

```
JavaScript
                                                                                                               ₫ C
    * @param {number[][]} rooms
    * @param {number[][]} queries
3
4
    * @return {number[]}
5
6 var closestRoom = function(rooms, queries) {
   };
```

0

0

0

0

(Hard)

Total Submissions:

Difficulty: