6178. Divide Intervals Into Minimum Number of Groups

My Submissions (/contest/weekly-contest-310/problems/divide-intervals-into-minimum-number-of-groups/submissions/)

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You are given a 2D integer array intervals where intervals[i] = [left_i, right_i] represents the **inclusive** interval [left_i, right_i].

You have to divide the intervals into one or more **groups** such that each interval is in **exactly** one group, and no two intervals that are in the same group **intersect** each other.

Return the *minimum* number of groups you need to make.

Two intervals **intersect** if there is at least one common number between them. For example, the intervals [1, 5] and [5, 8] intersect.

User Accepted:	74
User Tried:	87
Total Accepted:	74
Total Submissions:	91
Difficulty:	Medium

Example 1:

```
Input: intervals = [[5,10],[6,8],[1,5],[2,3],[1,10]]
Output: 3
Explanation: We can divide the intervals into the following groups:
    Group 1: [1, 5], [6, 8].
    Group 2: [2, 3], [5, 10].
    Group 3: [1, 10].
It can be proven that it is not possible to divide the intervals into fewer than 3 groups.
```

Example 2:

```
Input: intervals = [[1,3],[5,6],[8,10],[11,13]]
Output: 1
Explanation: None of the intervals overlap, so we can put all of them in one group.
```

Constraints:

- 1 <= intervals.length <= 10^5
- intervals[i].length == 2
- 1 <= left $_i$ <= right $_i$ <= 10 6

```
∄ 2 ❖
JavaScript
1
    const minGroups = (a) => sweepLineIntervals(a)
2
3 •
    const sweepLineIntervals = (a) => {
        let d = [], h = 0, res = 0;
 4
 5 ,
        for (const [l, r] of a) {
 6
             d.push([l, 1]);
 7
            d.push([r + 1, -1]);
 8
        d.sort((x, y) \Rightarrow \{
9,
             if (x[0] != y[0]) return x[0] - y[0];
10
11
             return x[1] - y[1];
12
        });
13 י
        for (const [, mark] of d) {
14
             h += mark;
            res = Math.max(res, h);
15
16
        }
17
        return res;
18
    };
```

Custom Testcase

Use Example Testcases

Run

Run

Submitsion Result: Accepted (/submissions/detail/796829556/)

More Details ➤ (/submissions/detail/796829556/)

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