435. Non-overlapping Intervals

Medium

Given an array of intervals intervals where intervals[i] = [starti, endi], return the minimum number of intervals you need to remove to make the rest of the intervals non-overlapping.

Example 1:

```
Input: intervals = [[1,2],[2,3],[3,4],[1,3]]
Output: 1
Explanation: [1,3] can be removed and the rest of the intervals are non-overlapping.
```

Example 2:

```
Input: intervals = [[1,2],[1,2],[1,2]]
Output: 2
Explanation: You need to remove two [1,2] to make the rest of the intervals non-
overlapping.
```

Example 3:

```
Input: intervals = [[1,2],[2,3]]
Output: 0
Explanation: You don't need to remove any of the intervals since they're already non-overlapping.
```

Constraints:

```
    1 <= intervals.length <= 10<sup>5</sup>
    intervals[i].length == 2
    -5 * 10<sup>4</sup> <= start<sub>i</sub> < end<sub>i</sub> <= 5 * 10<sup>4</sup>
```

Solution:

Let's Take one example:

```
[1,5],[3,7],[10,15]
```

Here in this example the the [1,5] and [3,7] are overlapping so we have to delete one of then so ans is 1 here.

Suppose Let's Take one more Example

```
[1,6],[3,9],[7,15]
In this intervlas
1------6
3------9
7------15
```

In this above example you have to delete intervals to making the the intervals non-overallpping So here it matters which interval should delete and also given in question that minimum interval In above example if we delete [1,6] interval then it again [3,6] and [7,15] will overlap.

And in case if we delete [3,9] then other two are non-overlapping

Example 3:

```
[1,9], [3,6], [7,15]
```

In this Case we will prefer to delete first interval over second.