56. Merge Intervals

Description

Given an array of [intervals] where $[intervals[i] = [start_i, end_i]$, merge all overlapping intervals, and return an array of the non-overlapping intervals that cover all the intervals in the input.

Example 1:

```
Input: intervals = [[1,3],[2,6],[8,10],[15,18]]
Output: [[1,6],[8,10],[15,18]]
Explanation: Since intervals [1,3] and [2,6] overlap, merge them into [1,6].
```

Example 2:

```
Input: intervals = [[1,4],[4,5]]
Output: [[1,5]]
Explanation: Intervals [1,4] and [4,5] are considered overlapping.
```

Constraints:

- 1 <= intervals.length <= 10 ⁴
- intervals[i].length == 2
- 0 <= start $_{i}$ <= end $_{i}$ <= 10 4