**[56. Merge Intervals](https://leetcode.com/problems/merge-intervals/)**

Given an array of intervals where intervals[i] = [starti, endi], 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 <= 104
* intervals[i].length == 2
* 0 <= starti <= endi <= 104