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