56. Merge Intervals - Copy

Given an array of <code>intervals</code> where <code>intervals[i] = [starti, endi]</code>, 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] overlaps, 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:

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• 1 <= intervals.length <= 104
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- intervals[i].length == 2
- 0 <= starti <= endi <= 104

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def merge(self, intervals: List[List[int]]) -> List[List[int]]:
res = []
intervals.sort(key = lambda x:x[0])
for i in range(len(intervals)):
    if i==0:
        res.append(intervals[i])
    else:
        if intervals[i][0]<=res[-1][1]:
             temp = res.pop()
             temp[1] = max(temp[1],intervals[i][1])
        res.append(temp)
    else:
        res.append(intervals[i])</pre>
```