

56. Merge Intervals - Copy (1)

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]` 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:

- `1 <= intervals.length <= 104`
 - `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])
 return res
```