

## 57. Insert Interval



Medium



7.9K



538



Companies

You are given an array of non-overlapping intervals `intervals` where `intervals[i] = [starti, endi]` represent the start and the end of the *i*<sup>th</sup> interval and `intervals` is sorted in ascending order by `starti`. You are also given an interval `newInterval = [start, end]` that represents the start and end of another interval.

Insert `newInterval` into `intervals` such that `intervals` is still sorted in ascending order by `starti` and `intervals` still does not have any overlapping intervals (merge overlapping intervals if necessary).

Return `intervals` *after the insertion*.

### Example 1:

**Input:** `intervals = [[1,3],[6,9]]`, `newInterval = [2,5]`

**Output:** `[[1,5],[6,9]]`

### Example 2:

**Input:** `intervals = [[1,2],[3,5],[6,7],[8,10],[12,16]]`, `newInterval = [4,8]`

**Output:** `[[1,2],[3,10],[12,16]]`

**Explanation:** Because the new interval `[4,8]` overlaps with `[3,5]`, `[6,7]`, `[8,10]`.

### Constraints:

- `0 <= intervals.length <= 104`
- `intervals[i].length == 2`
- `0 <= starti <= endi <= 105`
- `intervals` is sorted by `starti` in **ascending** order.
- `newInterval.length == 2`
- `0 <= start <= end <= 105`

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