# 436. Find Right Interval

You are given an array of intervals, where intervals[i] = [starti, endi] and each starti is unique.

The right interval for an interval i is an interval j such that startj >= endi and startj is minimized. Note that i may equal j.

Return an array of right interval indices for each interval i. If no right interval exists for interval i, then put -1 at index i.

### Example 1:

- **Input:** intervals = [[1,2]]
- **Output:** [-1]
- Explanation: There is only one interval in the collection, so it outputs -1.

## Example 2:

- **Input:** intervals = [[3,4],[2,3],[1,2]]
- **Output:** [-1,0,1]
- Explanation:
  - $\circ$  There is no right interval for [3,4].
  - $\circ$  The right interval for [2,3] is [3,4] since start 0 = 3 is the smallest start that is >= end1 = 3.
  - O The right interval for [1,2] is [2,3] since start 1=2 is the smallest start that is  $\geq 2$ .

# Example 3:

- **Input:** intervals = [[1,4],[2,3],[3,4]]
- **Output:** [-1,2,-1]
- Explanation:
  - There is no right interval for [1,4] and [3,4].
  - $\circ$  The right interval for [2,3] is [3,4] since start2 = 3 is the smallest start that is >= end1 = 3.

# **Constraints:**

- $1 \le \text{intervals.length} \le 2 * 10^4$
- intervals[i].length == 2
- $-10^6 \le \text{starti} \le \text{endi} \le 10^6$
- The start point of each interval is unique.