

5748. Minimum Interval to Include Each Query

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You are given a 2D integer array `intervals`, where `intervals[i] = [lefti, righti]` describes the *i*th interval starting at `lefti` and ending at `righti` (**inclusive**). The **size** of an interval is defined as the number of integers it contains, or more formally `righti - lefti + 1`.

You are also given an integer array `queries`. The answer to the *j*th query is the **size of the smallest interval** *i* such that `lefti <= queries[j] <= righti`. If no such interval exists, the answer is `-1`.

Return an array containing the answers to the queries.

User Accepted:	0
User Tried:	1
Total Accepted:	0
Total Submissions:	1
Difficulty:	Hard

Example 1:

Input: `intervals = [[1,4],[2,4],[3,6],[4,4]]`, `queries = [2,3,4,5]`
Output: `[3,3,1,4]`
Explanation: The queries are processed as follows:
- Query = 2: The interval `[2,4]` is the smallest interval containing 2. The answer is `4 - 2 + 1 = 3`.
- Query = 3: The interval `[2,4]` is the smallest interval containing 3. The answer is `4 - 2 + 1 = 3`.
- Query = 4: The interval `[4,4]` is the smallest interval containing 4. The answer is `4 - 4 + 1 = 1`.
- Query = 5: The interval `[3,6]` is the smallest interval containing 5. The answer is `6 - 3 + 1 = 4`.

Example 2:

Input: `intervals = [[2,3],[2,5],[1,8],[20,25]]`, `queries = [2,19,5,22]`
Output: `[2,-1,4,6]`
Explanation: The queries are processed as follows:
- Query = 2: The interval `[2,3]` is the smallest interval containing 2. The answer is `3 - 2 + 1 = 2`.
- Query = 19: None of the intervals contain 19. The answer is `-1`.
- Query = 5: The interval `[2,5]` is the smallest interval containing 5. The answer is `5 - 2 + 1 = 4`.
- Query = 22: The interval `[20,25]` is the smallest interval containing 22. The answer is `25 - 20 + 1 = 6`.

Constraints:

- `1 <= intervals.length <= 105`
- `1 <= queries.length <= 105`
- `queries[i].length == 2`
- `1 <= lefti <= righti <= 107`
- `1 <= queries[j] <= 107`

JavaScript

1

2

3

4

5

6

7

8

```
/**
 * @param {number[][]} intervals
 * @param {number[]} queries
 * @return {number[]}
 */
var minInterval = function(intervals, queries) {
};
```