

LeetCode

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Description

Solution

Discuss (203)

Submissions

1272. Remove Interval

Medium 343 26 Add to List Share

A set of **real numbers** can be represented as the union of several disjoint intervals, where each interval is in the form $[a, b)$. A real number x is in the set if one of its intervals $[a, b)$ contains x (i.e. $a \leq x < b$).

You are given a **sorted list** of disjoint intervals `intervals` representing a set of real numbers as described above, where `intervals[i] = [ai, bi)` represents the interval $[a_i, b_i)$. You are also given another interval `toBeRemoved`.

Return the set of real numbers with the interval `toBeRemoved` **removed from** `intervals`. In other words, return the set of real numbers such that every x in the set is in `intervals` but **not** in `toBeRemoved`. Your answer should be a **sorted list** of disjoint intervals as described above.

Example 1:

intervals

0 1 2 3 4 5 6 7

toBeRemoved

0 1 2 3 4 5 6 7

answer

0 1 2 3 4 5 6 7

Input: `intervals = [[0,2],[3,4],[5,7]]`, `toBeRemoved = [1,6]`
Output: `[[0,1],[6,7]]`

Example 2:

intervals

0 1 2 3 4 5

toBeRemoved

0 1 2 3 4 5

answer

0 1 2 3 4 5

Input: `intervals = [[0,5]]`, `toBeRemoved = [2,3]`
Output: `[[0,2],[3,5]]`

Example 3:

Input: `intervals = [[-5,-4],[-3,-2],[1,2],[3,5],[8,9]]`, `toBeRemoved = [-1,4]`
Output: `[[-5, -4], [-3, -2], [4, 5], [8, 9]]`

Constraints:

- $1 \leq \text{intervals.length} \leq 10^4$
- $-10^9 \leq a_i < b_i \leq 10^9$

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Seen this question in a real interview before?

Yes

No

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1

2

3

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class Solution {

public List<List<Integer>> removeInterval(int[][] intervals, int[] toBeRemoved) {

}

}

1

2

3

4

5

class Solution {

public List<List<Integer>> removeInterval(int[][] intervals, int[] toBeRemoved) {

}

}

Problems

Pick One

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1272/2421

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Console

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https://leetcode.com/problems/remove-interval/

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