

# Problem 1893: Check if All the Integers in a Range Are Covered

## Problem Information

**Difficulty:** Easy

**Acceptance Rate:** 50.71%

**Paid Only:** No

**Tags:** Array, Hash Table, Prefix Sum

## Problem Description

You are given a 2D integer array `ranges` and two integers `left` and `right`. Each `ranges[i] = [starti, endi]` represents an \*\*inclusive\*\* interval between `starti` and `endi`.

Return `true` \_if each integer in the inclusive range\_ `'[left, right]'` \_is covered by\*\*at least one\*\* interval in\_ `ranges`. Return `false` \_otherwise\_.

An integer `x` is covered by an interval `ranges[i] = [starti, endi]` if `starti <= x <= endi`.

**Example 1:**

**Input:** ranges = [[1,2],[3,4],[5,6]], left = 2, right = 5 **Output:** true **Explanation:** Every integer between 2 and 5 is covered: - 2 is covered by the first range. - 3 and 4 are covered by the second range. - 5 is covered by the third range.

**Example 2:**

**Input:** ranges = [[1,10],[10,20]], left = 21, right = 21 **Output:** false **Explanation:** 21 is not covered by any range.

**Constraints:**

\* `1 <= ranges.length <= 50` \* `1 <= starti <= endi <= 50` \* `1 <= left <= right <= 50`

## Code Snippets

### C++:

```
class Solution {  
public:  
    bool isCovered(vector<vector<int>>& ranges, int left, int right) {  
  
    }  
};
```

### Java:

```
class Solution {  
public boolean isCovered(int[][] ranges, int left, int right) {  
  
}  
}
```

### Python3:

```
class Solution:  
    def isCovered(self, ranges: List[List[int]], left: int, right: int) -> bool:
```