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370. Range Addition Premium
                      Companies
           ♥ Topics

    ∩ Hint

 Medium
You are given an integer length and an array updates where updates [i] = [startIdx_i]
endIdx_i, inc_i].
You have an array arr of length length with all zeros, and you have some operation to
apply on arr. In the i^{th} operation, you should increment all the elements arr[startIdx_i],
arr[startIdx_i + 1], ..., arr[endIdx_i] by inc_i.
Return arr after applying all the updates.
Example 1:
     0
  Input: length = 5, updates = [[1,3,2],[2,4,3],[0,2,-2]]
  Output: [-2,0,3,5,3]
Example 2:
  Input: length = 10, updates = [[2,4,6],[5,6,8],[1,9,-4]]
  Output: [0,-4,2,2,2,4,4,-4,-4,-4]
Constraints:

    1 <= length <= 10<sup>5</sup>

    0 <= updates.length <= 10<sup>4</sup>

  \emptyset \leftarrow startIdx_i \leftarrow endIdx_i \leftarrow length

    -1000 <= inc<sub>i</sub> <= 1000</li>

Seen this question in a real interview before? 1/5
        No
 Yes
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Q
   Hint 1
    Thinking of using advanced data structures? You are thinking it too complicated.
Q
   Hint 2
    For each update operation, do you really need to update all elements between i and j?
Q
   Hint 3
    Update only the first and end element is sufficient.
    Hint 4
    The optimal time complexity is O(k + n) and uses O(1) extra space.
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