370. Range Addition

Assume you have an array of length *n* initialized with all **0**'s and are given *k* update operations.

Each operation is represented as a triplet: **[startIndex, endIndex, inc]** which increments each element of subarray **A[startIndex ... endIndex]** (startIndex and endIndex inclusive) with **inc**.

Return the modified array after all *k* operations were executed.

```
class Solution {
public int[] getModifiedArray(int length, int[][] updates) {
     int[] res = new int[length];
     for (int[] update : updates) {
         int start = update[0];
         int end = update[1];
         int value = update[2];
         res[start] += value;
         if (end < length -1)
             res[end + 1] -= value;
      }
     int sum = 0;
      for (int i = 0; i < length; i++) {
        sum += res[i];
         res[i] = sum;
      }
     return res;
 }
```