Number of subarrays with maximum values in given range

Given an array of N elements and L and R, print the number of sub-arrays such that the value of the maximum array element in that subarray is at least L and at most R.

Example 1:

```
Input : Arr[] = {2, 0, 11, 3, 0}
L = 1 and R = 10
Output : 4
Explanation:
The sub-arrays {2}, {2, 0}, {3} and {3, 0}
have maximum in range 1-10.
```

Example 2:

```
Input : Arr[] = {3, 4, 1}
L = 2 and R = 4
Output : 5
```

Your Task:

This is a function problem. The input is already taken care of by the driver code. You only need to complete the function **countSubarrays**() that takes an array (**arr**), sizeOfArray (**n**), element **L**, integer **R**, and return the number of subarray with the maximum in range L-R. The driver code takes care of the printing.

```
Expected Time Complexity: O(N). Expected Auxiliary Space: O(1).
```

Constraints:

```
1 \le N \le 10^51 \le L \le R \le 10^6
```