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303. Range Sum Query - Immutable

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Given an integer array `nums`, handle multiple queries of the following type:

1. Calculate the **sum** of the elements of `nums` between indices `left` and `right` **inclusive** where `left <= right`.

Implement the `NumArray` class:

• `NumArray(int[] nums)` Initializes the object with the integer array `nums`.

• `int sumRange(int left, int right)` Returns the **sum** of the elements of `nums` between indices `left` and `right` **inclusive** (i.e. `nums[left] + nums[left + 1] + ... + nums[right]`).

Example 1:

Input

["NumArray", "sumRange", "sumRange", "sumRange"]

[[[-2, 0, 3, -5, 2, -1]], [0, 2], [2, 5], [0, 5]]

Output

[null, 1, -1, -3]

Explanation

`NumArray numArray = new NumArray([-2, 0, 3, -5, 2, -1]);`  
`numArray.sumRange(0, 2); // return (-2) + 0 + 3 = 1`  
`numArray.sumRange(2, 5); // return 3 + (-5) + 2 + (-1) = -1`  
`numArray.sumRange(0, 5); // return (-2) + 0 + 3 + (-5) + 2 + (-1) = -3`

Constraints:

• `1 <= nums.length <= 104`

• `-105 <= nums[i] <= 105`

• `0 <= left <= right < nums.length`

• At most `104` calls will be made to `sumRange`.

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```
class NumArray {  
    public NumArray(int[] nums) {  
    }  
    public int sumRange(int left, int right) {  
    }  
}
```

```
/**  
 * Your NumArray object will be instantiated and called as such:  
 * NumArray obj = new NumArray(nums);  
 * int param_1 = obj.sumRange(left,right);  
 */
```

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1/1