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307. Range Sum Query - Mutable

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

1. **Update** the value of an element in `nums`.

2. 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`.

• `void update(int index, int val)` **Updates** the value of `nums[index]` to be `val`.

• `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", "update", "sumRange"]

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

Output

[null, 9, null, 8]

Explanation

NumArray numArray = new NumArray([1, 3, 5]);

numArray.sumRange(0, 2); // return 1 + 3 + 5 = 9

numArray.update(1, 2); // nums = [1, 2, 5]

numArray.sumRange(0, 2); // return 1 + 2 + 5 = 8

Constraints:

• 1 <= `nums.length` <= 3 \* 10<sup>4</sup>

• -100 <= `nums[i]` <= 100

• 0 <= `index` < `nums.length`

• -100 <= `val` <= 100

• 0 <= `left` <= `right` < `nums.length`

• At most 3 \* 10<sup>4</sup> calls will be made to `update` and `sumRange`.

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class NumArray {

public NumArray(int[] nums) {

}

public void update(int index, int val) {

}

public int sumRange(int left, int right) {

}

}

/\*\*

\* Your NumArray object will be instantiated and called as such:

\* NumArray obj = new NumArray(nums);

\* obj.update(index,val);

\* int param\_2 = obj.sumRange(left,right);

\*/

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