# 303. Range Sum Query - Immutable

Solved

Easy Topics Companies

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 <= 10<sup>4</sup>
- $-10^5 \le \text{nums[i]} \le 10^5$
- 0 <= left <= right < nums.length
- At most 10<sup>4</sup> calls will be made to sumRange.