**[Range Sum Query - Immutable](https://leetcode.com/problems/range-sum-query-immutable/)**

class NumArray {

int[] sum;

public NumArray(int[] nums) {

sum = new int[nums.length + 1];

for(int i = 0 ; i < nums.length ; i++) {

sum[i + 1] = sum[i] + nums[i];

}

}

public int sumRange(int i, int j) {

return sum[j + 1] - sum[i];

}

}

Time Complexity : O(1) , constant time

Space Complexity : O(n), n is number of elements in array