Medium **Codewriting** **3000**

You have an array of integers `nums` and an array `queries`, where `queries[i]` is a pair of indices (`0`-based). Find the sum of the elements in `nums` from the indices at `queries[i][0]` to `queries[i][1]` (inclusive) for each query, then add all of the sums for all the queries together. Return that number modulo $10^9 + 7$.

Example

For `nums = [3, 0, -2, 6, -3, 2]` and `queries = [[0, 2], [2, 5], [0, 5]]`, the output should be `sumInRange(nums, queries) = 10`.

The array of results for queries is `[1, 3, 6]`, so the answer is `1 + 3 + 6 = 10`.

Input/Output

- **[execution time limit] 20 seconds (swift)**
- **[input] array.integer nums**

  An array of integers.

  Guaranteed constraints:
  $1 \le nums.length \le 10^5$,
  $-1000 \le nums[i] \le 1000$.

- **[input] array.array.integer queries**

  An array containing sets of integers that represent the indices to query in the `nums` array.

  Guaranteed constraints:
  $1 \le queries.length \le 3 \cdot 10^5$,
  $queries[i].length = 2$,
  $0 \le queries[i][j] \le nums.length - 1$,
  $queries[i][0] \le queries[i][1]$.

- **[output] integer**

  An integer that is the sum of all of the sums gotten from querying `nums`, taken modulo $10^9 + 7$.

[Swift3] Syntax Tips

```
// Prints help message to the console
// Returns a string
func helloWorld(name: String) -> String {
    print("This prints to the console when you Run Tests");
    return "Hello, " + name;
}
```