Leetcode Problem 2. (Easy)

Single Number

```
Given a non-empty array of integers nums, every element appears twice except for one. Find that single one.

You must implement a solution with a linear runtime complexity and use only constant extra space.

Example 1:
Input: nums = [2,2,1]
Output: 1

Example 2:
Input: nums = [4,1,2,1,2]
Output: 4

Example 3:
Input: nums = [1]
Output: 1
```

- 1 <= nums.length <= 3 * 104
- -3 * 104 <= nums[i] <= 3 * 104
- Each element in the array appears twice except for one element which appears only once.

Link: https://leetcode.com/problems/single-number/

```
class Solution {
    public int singleNumber(int[] nums) {

    int result = 0;
        for (int num : nums) {
            result ^= num;
        }
        return result;
    }
}
```

