136. Single Number

Easy

210281FavoriteShare

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

Note:

Your algorithm should have a linear runtime complexity. Could you implement it without using extra memory?

Example 1:

Input: [2,2,1]  
Output: 1

Example 2:

Input: [4,1,2,1,2]  
Output: 4

class Solution {

public:

int singleNumber(vector<int>& nums) {

int ret=nums[0];

for(int i=1;i<nums.size();i++){

ret=ret^nums[i];

}

return ret;

}

};

Success

[Details](https://leetcode.com/submissions/detail/211312235/)

Runtime: 16 ms, faster than 94.86% of C++ online submissions for Single Number.

Memory Usage: 9.6 MB, less than 83.30% of C++ online submissions forSingle Number.