136. Single Number ★

Total Accepted: **154253**   Total Submissions: **298478**   Difficulty: **Easy**

Given an 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?

Subscribe (/subscribe/) to see which companies asked this question

Notes

Show Tags

Show Similar Problems

Have you met this question in a real interview? Yes No

Discuss (https://leetcode.com/discuss/questions/oj/single-number)

Pick One (/problems/random-one-question/)

C++   ⟳ </>

```cpp
class Solution {
public:
    int singleNumber(vector<int>& nums) {
        int x = 0;
        for (auto i : nums) {
         x ^= i;
        }
        return x;
    }
};
```

Custom Testcase ☐   ✉ Send Feedback (mailto:admin@leetcode.com?subject=Feedback)

| Run Code | Submit Solution |

Frequently Asked Questions (/faq/) | Terms of Service (/tos/)

Privacy

Notes

✉ Send Feedback (mailto:admin@leetcode.com?subject=Feedback)