137. Single Number II ★

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Total Accepted: **96233** Total Submissions: **245477** Difficulty: **Medium**

Given an array of integers, every element appears *three* times except for one. Find that single one.

Notes

Note:

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

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C++

```
class Solution {
public:
    int singleNumber(vector<int>& nums) {
        vector<int> bitCount;
        bitCount.insert(bitCount.begin(), 8*sizeof(int), 0);
        for (auto& it : nums) {
            bitset<8 * sizeof(int)> num(it);
            for (int j = 0, n = bitCount.size(); j < n; ++j) {
                bitCount[j] += num[j];
            }
        }
        int single = 0;
        for (int j = 0, n = bitCount.size(); j < n; ++j) {
            bitCount[j] %= 3;
            single += bitCount[j] << j;
        }

        return single;
    }
};
```

Custom Testcase

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