

# Unique Number III

## Unique Number III



Difficulty: Medium Accuracy: 49.87% Submissions: 56K+ Points: 4 Average Time: 20m

Given an array of integers `arr[]` where, every element **appears thrice** except for one which **occurs once**. Find that element which **occurs once**.



### Examples:

**Input:** `arr[] = [1, 10, 1, 1]`  
**Output:** 10  
**Explanation:** 10 occurs once in the array while the other element 1 occurs thrice.

**Input:** `arr[] = [3, 2, 1, 34, 34, 1, 2, 34, 2, 1]`  
**Output:** 3  
**Explanation:** All elements except 3 occurs thrice in the array.

### Constraints:

$1 \leq \text{arr.size()} \leq 10^5$   
 $\text{arr.size()} \% 3 = 1$   
 $-10^9 \leq \text{arr}[i] \leq 10^9$

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### Expected Complexities



10 1 0  
 0 0 0 1  
 0 0 0 1  
 10 0 0 1

class Solution {

public:

int getSingle(vector<int> &arr) {

int ans = 0;

for(int i=0; i<32; i++) {

int mask = 1 << i, num = 0;

for(int j=0; j<arr.size(); j++) {

if(arr[j] & mask) num++; }

```
        if (num % 3 == 1) ans = ans / mask; }  
    return ans;  
};
```

T.C :  $O(n)$  S.C :  $O(1)$

// } Driver Code Ends

// User function Template for C++

```
class Solution {
public:
    int getSingle(vector<int> &arr) {
        // code here
        int ans=0;
        for(int i=0;i<32;i++){
            int mask=1<<i, num=0;
            for(int j=0;j<arr.size();j++){
                if(arr[j]&mask)num++;
            }
            if(num%3==1)ans=ans|mask;
        }
        return ans;
    }
};
```

// } Driver Code Ends

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