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MEDIUM

Max Score: 40 Points

Unique Number in a Triplet Array

Given an integer array `nums` where every element appears three times except for one, which appears exactly once. Find the single element and return it.

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

Input Format

The first line contains `n` which denotes the size of array.

Next line contains `n` space separated integers which denotes the array.

Output Format

Return the single element present in the array.

Example 1

Input

```
4
```

```
2 2 3 2
```

Output

```
3
```

Example 2

Input

```
7
```

```
2 2 2 4 4 4 5
```

Output

```
5
```

Constraints

```
1 <= nums.length <= 3 * 10^4
```

```
-2^31 <= nums[i] <= 2^31 - 1
```

Each element in `nums` appears exactly three times except for one element which appears once.

Topic Tags

Bit Manipulation

My code

```
// in java
import java.util.*;
import java.lang.*;
import java.io.*;

class Solution{
    public static int singleNumber(int[] nums) {
    // Your code here
                Arrays.sort(nums);
                int n=nums.length;
                if(n==1)
                        return nums[0];
                int i=0;
                while(i<n-3)
                        {
                                if(nums[i]!=nums[i+1])
                                        return nums[i];
                                i=i+3;
                        }
                return nums[n-1];
}
}
public class Main {
  public static void main (String[] args)
        {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
```

```
        int[] nums = new int[n];
        for (int i = 0; i < n; i++) {
            nums[i] = sc.nextInt();
        }
        System.out.println(Solution.singleNumber(nums));
        }
}
```