

## DAY 1


Problem 12: [Find the Duplicate Number](#)


### Code:


```
class Solution {
public:
    int findDuplicate(vector<int>& nums)
    {
        int n=nums.size();
        sort(nums.begin(),nums.end());
        int x=nums[0],i;
        for(i=1;i<n;i++)
        {
            x=x^nums[i];
            if(x==0) break;
            else x=nums[i];
        }
        return nums[i];
    }
};
```


### Output:

Accepted 59 / 59 testcases passed

 **Utsav Raj** submitted at Feb 04, 2025 14:23


 Editorial

 Solution

 Runtime



**43 ms** | Beats **20.97%**

 Analyze Complexity

 Memory

**65.24 MB** | Beats **26.98%**

