APPRACH BINARY SEARCH;

EDGE ACSE=> AT EVEN INDEX DO NO DO E=MID-1 COZ IT MAY BE THAT MID IS THE ANSWER SO IF YOU DO MID-1 YOU WILL 1 STEP BACKWORD FROM THE ORIGINAL VALUE;

```
class Solution {
public:
    int singleNonDuplicate(vector<int>& nums) {
        if (nums.size() == 1) {
            return nums[0];
        int s = 0;
        int e = nums.size() - 1;
        int mid;
        while (s <= e) {
           mid = s + (e - s) / 2;
            if (mid % 2 == 0) {
                if (nums[mid] == nums[mid + 1]) {
                    s = mid + 2;
                } else {
                    e = mid - 1;
            } else {
                if (nums[mid] == nums[mid - 1]) {
                    s = mid + 1;
                } else {
                    e = mid - 1;
        return nums[s];
```

```
class Solution {
public:
    int singleNonDuplicate(vector<int>& nums) {
        int s=0;
        int e=nums.size()-1;
        int mid=s+(e-s)/2;
        while(s<=e){
            if(s==e){
                return nums[s];
            if(mid%2==0){
                if(nums[mid]!=nums[mid+1] && nums[mid]!=nums[mid-1] && mid+1<nums.size() && mid-1 >=0){
                     return nums[mid];
                }else if(mid+1<nums.size() && nums[mid]==nums[mid+1]){</pre>
                }else{
                    e=mid;
            }else{
                if(nums[mid]!=nums[mid+1] && mid+1<nums.size()){</pre>
                    s=mid+1;
                }else{
                    e=mid-1;
            mid=s+(e-s)/2;
        return -1;
```