Started on	Monday, 19 August 2024, 10:45 AM
State	Finished
Completed on	Monday, 19 August 2024, 11:51 AM
Time taken	1 hour 5 mins
Marks	1.00/1.00
Grade	**4.00** out of 4.00 (**100**%)

Question **1**

Correct

Mark 1.00 out of 1.00

Find Duplicate in Array.

Given a read only array of n integers between 1 and n, find one number that repeats.

Input Format:

First Line - Number of elements

n Lines - n Elements

Output Format:

Element x - That is repeated

For example:

Input	Result
5 1 1 2 3 4	1

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int rep(int arr[], int n) {
    int res=0;
    for (int i=0;i<n;i++) {
        res^=arr[i];
    }
    for (int i=0;i<n;i++) {
        res^=i;
    }
    return res;
}
int main(){
    int n;
    scanf("%d",&n);
    int arr[n];
    for (int i=0;i<n;i++) {
        scanf("%d",&arr[i]);
    }
    printf("%d",rep(arr,n));
    return 0;
}

/*#include<stdio.h>
int rep(int arr[],int n) {
    int res=0;
    for(int i=0; i<n; i++){
        res^=arr[i];
    }
    for(int i=0; i<n-1;i++){
        res^=i;
    }
    return res; //This is the repeating
}
int main() {
    int n;
    scanf("%d",&n);
    int arr[n];
    for(int i=0;i<n;i++)
        scanf("%d",&arr[i]);
    printf("%d",rep(arr,n));
    return 0;
}
*/
/*
#include<stdio.h>
int dup(int arr[],int n){
    for(int i=0;i<n;i++){
        scanf("%d",&arr[i]);
        for(int j=0;j<i;j++){
            if(arr[j]==arr[i])
            return arr[i];
        }
```

	Input	Expected	Got	
✔	11 10 9 7 6 5 1 2 3 8 4 7	7	7	✔
✔	5 1 2 3 4 4	4	4	✔
✔	5 1 1 2 3 4	1	1	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ 1-Finding Duplicates-O(n^2) Time Complexity,O(1) Space Complexity

Jump to...

3-Print Intersection of 2 sorted arrays-O(m*n)Time Complexity,O(1) Space Complexity ►