Started on	Thursday, 23 October 2025, 8:20 AM
State	Finished
Completed on	Thursday, 23 October 2025, 8:37 AM
Time taken	17 mins 3 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**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 %)

```c
1   #include<stdio.h>
2   #include<stdlib.h>
3   int main(){
4       int n;
5       scanf("%d",&n);
6       int*arr=(int*)malloc(n*sizeof(int));
7       if(arr==NULL){
8           return 1;
9       }
10      for(int i=0;i<n;i++){
11          scanf("%d",&arr[i]);
12      }
13      int*count=(int*)calloc(n+1,sizeof(int));
14      if(count==NULL){
15          free(arr);
16          return 1;
17      }
18      for(int i=0;i<n;i++){
19          count[arr[i]]++;
20          if(count[arr[i]]>1){
21              printf("%d",arr[i]);
22              break;
23
24          }
25      }\
26      free(arr);
27      free(count);
28      return 0;
29
30  }
31
```

	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	✔

	Input	Expected	Got	
✔	5 1 1 2 3 4	1	1	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.