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Started on	Friday, 16 August 2024, 1:45 PM
State	Finished
Completed on	Friday, 16 August 2024, 2:16 PM
Time taken	30 mins 41 secs
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 %)

```

1  #include<stdio.h>
2  int main(){
3      int n;
4      scanf("%d",&n);
5      int a[n];
6      for(int i=0;i<n;i++)
7      {
8          scanf("%d",&a[i]);
9      }
10
11     int c[100];
12     for(int i=0;i<100;i++)
13         c[i]=0;
14     for(int i=0;i<n;i++)
15     {
16         c[a[i]]++;
17     }
18     for(int i=0;i<100;i++)
19     {
20
21         if(c[i]>=2){
22             printf("%d",i);
23             break;
24         }
25     }
26 }
27

```

	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](#)[3-Print Intersection of 2 sorted arrays- \$O\(m*n\)\$ Time Complexity, \$O\(1\)\$ Space Complexity ▶](#)