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Started on	Tuesday, 27 August 2024, 2:10 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 2:53 PM
Time taken	42 mins 59 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,x,c=0;
4      scanf("%d",&n);
5      int a[n];
6
7      for (int i=0;i<n;i++){
8          scanf("%d",&a[i]);
9      }
10
11     for (int j=0;j<n;j++){
12         if(a[j]==a[j+1])
13         {
14             printf("%d",a[j]);
15             c++;
16         }
17         for(int k=0;k<n;k++)
18         {
19             if(a[j]==a[k])
20             {
21                 x=a[j];
22             }
23         }
24     }
25
26     if(c==0)
27     {
28         printf("%d",x);
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.

◀ 5-Implementation of Quick Sort

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2-Finding Duplicates- $O(n)$ Time Complexity, $O(1)$ Space Complexity ▶