Started on	Tuesday, 8 October 2024, 2:00 PM
State	Finished
Completed on	Tuesday, 8 October 2024, 2:00 PM
Time taken	12 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 %)

```c
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     }
27 if(c==0)
28 {
29     printf("%d",x);
30 }
31 }
32
33
34
```

	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.

◄ 5-Implementation of Quick Sort

Jump to...

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