Dashbo... / My cour... / CS23331-DAA-2023-... / Competitive Programm... / 2-Finding Duplicates-O(n) Time Complexity,O(1) Space Comp...

Started on	Friday, 23 August 2024, 1:41 PM
State	Finished
Completed on	Friday, 23 August 2024, 1:50 PM
Time taken	9 mins 38 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  {
4      int n;
5      scanf("%d",&n);
6      int a[n];
7      for(int i=0;i<n;i++)
8      {
9          scanf("%d ",&a[i]);
10     }
11     int temp=0,counter[1000]={0};
12     for(int i=0;i<n;i++)
13     {
14         temp=a[i];
15         if(counter[temp]==1)
16         {
17             printf("%d",temp);
18             break;
19         }
20         else{
21             counter[temp]+=1;
22         }
23     }
24 }
```

	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 ►