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

Started on	Tuesday, 27 August 2024, 2:37 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 2:44 PM
Time taken	7 mins 11 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   #include<stdlib.h>
3   int main(){
4       int n,e;
5       scanf("%d",&n);
6       int a[n];
7       for(int i=0;i<n;i++){
8           scanf("%d",&e);
9           a[i]=e;
10      }
11      int b=-1;
12      for(int i=0;i<n;+i++){
13          int d=abs(a[i]);
14          if(a[d]<0){
15              b=d;
16              break;
17          }
18          else{
19              a[d]=-a[d];
20          }
21      }
22      if(b!=-1){
23          printf("%d",b);
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

Jump to...