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

Started on	Friday, 16 August 2024, 2:04 PM
State	Finished
Completed on	Friday, 16 August 2024, 2:29 PM
Time taken	24 mins 46 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 1 2 3 4			

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 1
 2
 3
    int main()
 4
 5
         int n,r=0,s=0;
 6
         scanf("%d",&n);
        int arr[n];
 7
 8
         for(int i=0;i<n;i++)</pre>
 9 .
10
             scanf("%d",&arr[i]);
11
         s=(n*(n-1))/2;
12
13
         for(int i=0;i<n;i++)</pre>
14
15
             r=r+arr[i];
16
17
         printf("%d",r-s);
18
```

	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

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3-Print Intersection of 2 sorted arrays-O(m*n)Time Complexity,O(1) Space Complexity ►