

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

Started on	Saturday, 18 October 2025, 11:26 AM
State	Finished
Completed on	Saturday, 18 October 2025, 11:32 AM
Time taken	5 mins 48 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 %)

```

1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     int a[n];
6     int c[n+1];
7     for(int i=0;i<n;i++){
8         c[i]=0;
9     }
10    for(int i=0;i<n;i++){
11        scanf("%d",&a[i]);
12    }
13    for(int i=0;i<n;i++){
14        c[a[i]]++;
15        if(c[a[i]]>1){
16            printf("%d",a[i]);
17        }
18    }
19 }
20 }
```

	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.

[Finish review](#)

[Back to Course](#)