

# CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

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✓

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<b>Started on</b>	Friday, 16 August 2024, 1:38 PM
<b>State</b>	Finished
<b>Completed on</b>	Friday, 16 August 2024, 2:00 PM
<b>Time taken</b>	22 mins 41 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	4.00 out of 4.00 (100%)

Question **1**  
Correct  
Mark 1.00 out of 1.00  
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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: 0.0%)

```
1 #include <stdio.h>
2 int main(){
3     int a;
4     scanf("%d",&a);
5     int arr[a];
6     int rep[100]={0};
7     for(int i=0;i<a;i++){
8         scanf("%d",&arr[i]);
9         rep[arr[i]]++;
10    }
11    for(int i=0;i<11;i++){
12        if(rep[i]>1){
13            printf("%d ",i);
14        }
15    }
16 }
```

	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.

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→ 4-DP-Longest non-decreasing Subsequence

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