

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

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## Quiz navigation



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<b>Started on</b>	Tuesday, 20 August 2024, 2:07 PM
<b>State</b>	Finished
<b>Completed on</b>	Tuesday, 20 August 2024, 2:45 PM
<b>Time taken</b>	38 mins 15 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

Flag question

### 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 %)

```
1 #include<stdio.h>
2 int main(){
3     int n,i,j,visited=0;
4     scanf("%d",&n);
5     int a[n];
6     for(i=0;i<n;i++){
7         scanf("%d",&a[i]);
8     }
9     for(i=0;i<n;i++){
10        for(j=0;j<n;j++){
11            if(i!=j && a[i]==a[j] && visited!=a[i]){
12                printf("%d ",a[i]);
13                visited=a[i];
14            }
15        }
16    }
17 }
18
19
20
21 return 0;
22 }
```

	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

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