

CS23331-Design and Analysis of Algorithms-2023 Batch-CS

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Status	Finished
Started	Tuesday, 22 April 2025, 2:54 PM
Completed	Tuesday, 22 April 2025, 2:59 PM
Duration	5 mins 4 secs
Marks	1.00/1.00
Grade	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 {
4     int n;
5     scanf("%d", &n);
6     int arr[n];
7     for (int i = 0; i < n; i++)
8     {
9         scanf("%d", &arr[i]);
10    }
11    int sum = n * (n + 1) / 2;
12    int newsum = 0;
13    for (int i = 0; i < n; i++)
14    {
15        newsum += arr[i];
16    }
17
18    printf("%d", n - sum + newsum);
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.

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[◀ 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 ▶](#)