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

Quiz navigation

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Finish review

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 %)

```c
#include <stdio.h>
int main()
{
    int n;
    scanf("%d", &n);
    int arr[n];
    for (int i = 0; i < n; i++)
    {
        scanf("%d", &arr[i]);
    }
    int sum = n * (n + 1) / 2;
    int newsum = 0;
    for (int i = 0; i < n; i++)
    {
        newsum += arr[i];
    }

    printf("%d", n - sum + newsum);
}
```

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

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