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

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Finish review

Started on	Friday, 16 August 2024, 2:00 PM
State	Finished
Completed on	Friday, 16 August 2024, 2:20 PM
Time taken	19 mins 46 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]);
    }
    for (int i = 0; i < n; i++) {
        int index = arr[i] % n;
        arr[index] += n;
    }
    for (int i = 0; i < n; i++) {
        if (arr[i] / n > 1) {
            printf("%d ", i);
        }
    }
}
```

	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