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CS23331-DAA-2024-CSE / 2-Finding Duplicates-O(n) Time Complexity,O(1) Space Complexity

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

Started on	Wednesday, 5 November 2025, 6:52 AM
State	Finished
Completed on	Wednesday, 5 November 2025, 6:53 AM
Time taken	43 secs
Marks	1.00/1.00
Grade	4.00 out of 4.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00 

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 1 2 3 4	

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int main() {
4     int n;
5     scanf("%d", &n);
6     int arr[n];
7     for (int i = 0; i < n; i++)
8         scanf("%d", &arr[i]);
9
10    int freq[n + 1];
11    for (int i = 0; i <= n; i++)
12        freq[i] = 0;
13
14    for (int i = 0; i < n; i++) {
15        if (freq[arr[i]] == 1) {
16            printf("%d\n", arr[i]);
17            return 0;
18        }
19        freq[arr[i]] = 1;
20    }
21
22    return 0;
23}
24
```

	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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Data retention summary