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

Started on	Thursday, 20 November 2025, 9:52 PM
State	Finished
Completed on	Thursday, 20 November 2025, 9:53 PM
Time taken	1 min 8 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
8     for (int i = 0; i < n; i++) {
9         scanf("%d", &arr[i]);
10    }
11
12    int freq[n + 1];
13    for (int i = 0; i <= n; i++) {
14        freq[i] = 0;
15    }
16
17    for (int i = 0; i < n; i++) {
18        if (freq[arr[i]] == 1) {
19            printf("%d\n", arr[i]);
20            return 0;
21        }
22        freq[arr[i]] = 1;
23    }
24
25
26    printf("No duplicate found\n");
27    return 0;
28 }
```

	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