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

Started on	Thursday, 20 November 2025, 9:42 PM
State	Finished
Completed on	Thursday, 20 November 2025, 9:47 PM
Time taken	5 mins 39 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 1 2 3 4	

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 visited[n + 1];
    for (int i = 0; i <= n; i++)
        visited[i] = 0;

    for (int i = 0; i < n; i++) {
        if (visited[arr[i]] == 1) {
            printf("%d\n", arr[i]);
            return 0;
        }
        visited[arr[i]] = 1;
    }
    printf("No duplicate found\n");
    return 0;
}
```

	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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