



CHANDRU G S 2024-CSE ▾

C2

Started on	Wednesday, 22 October 2025, 8:25 PM
State	Finished
Completed on	Sunday, 16 November 2025, 9:01 PM
Time taken	25 days
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 findDuplicate(int nums[], int n) {
4     int slow = nums[0];
5     int fast = nums[0];
6
7     do {
8         slow = nums[slow];
9         fast = nums[nums[fast]];
10    } while (slow != fast);
11
12    slow = nums[0];
13    while (slow != fast) {
14        slow = nums[slow];
15        fast = nums[fast];
16    }
17
18    return slow;
19 }
20
21 int main() {
22     int n;
23     scanf("%d", &n);
24
25     int nums[n];
26     for (int i = 0; i < n; i++) {
27         scanf("%d", &nums[i]);
28     }
29
30     int duplicate = findDuplicate(nums, n);
31     printf("%d", duplicate);
32
33     return 0;
34 }
35
```

	Input	Expected	Got	
✓	11	7	7	✓
	10 9 7 6 5 1 2 3 8 4 7			

	Input	Expected	Got	
✓	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.

[Back to Course](#)