



RAKSHITA N 2024-IT

R2

**Started on** Tuesday, 18 November 2025, 11:08 AM

**State** Finished

**Completed on** Tuesday, 18 November 2025, 11:09 AM

**Time taken** 23 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
7     int A[n];
8     for(int i = 0; i < n; i++)
9         scanf("%d", &A[i]);
10
11
12     int slow = A[0];
13     int fast = A[A[0]];
14
15     while(slow != fast) {
16         slow = A[slow];
17         fast = A[A[fast]];
18     }
19
20     slow = 0;
21     while(slow != fast) {
22         slow = A[slow];
23         fast = A[fast];
24     }
25
26     printf("%d\n", slow);
27     return 0;
28 }
29

```

	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.

[Back to Course](#)