

RAKSHITA N 2024-IT ▾**R2****Started on** Tuesday, 18 November 2025, 11:07 AM**State** Finished**Completed on** Tuesday, 18 November 2025, 11:08 AM**Time taken** 1 min 4 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    int slow = A[0];
12    int fast = A[A[0]];
13
14    while(slow != fast) {
15        slow = A[slow];
16        fast = A[A[fast]];
17    }
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.

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