

7 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 2 3 4	1

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.

[Back to Course](#)