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CS23331-DAA-2024-CSE / 2-Finding Duplicates-O(n) Time Complexity,O(1) Space Complexity

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

Started on Friday, 10 October 2025, 2:12 PM Completed on Friday, 24 October 2025, 2:15 PM Time taken 14 days Marks 1.00/1.00 **Grade 4.00** out of 4.00 (**100**%)

## **Question 1** | Correct Mark 1.00 out of 1.00 $\mathbb{F}$ 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 %)

```
#include <stdio.h>
     int n;
scanf("%d", &n);
int arr[n];
     int slow = arr[0];
int fast = arr[0];
     slow = arr[0];
while (slow != fast) {
    slow = arr[slow];
    fast = arr[fast];
```

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