

SRIRAM S (12/08/2006) 2024-IT ▾**S2****Started on** Wednesday, 5 November 2025, 4:12 AM**State** Finished**Completed on** Wednesday, 5 November 2025, 4:14 AM**Time taken** 1 min 50 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 findDuplicate(int arr[], int n) {
4     int freq[n + 1]; // Frequency array from 1 to n
5
6     // Initialize frequency array
7     for (int i = 0; i <= n; i++)
8         freq[i] = 0;
9
10    // Check for duplicates
11    for (int i = 0; i < n; i++) {
12        if (freq[arr[i]] == 1)
13            return arr[i];
14        freq[arr[i]] = 1;
15    }
16
17    return -1; // No duplicate found
18}
19
20 int main() {
21     int n;
22     scanf("%d", &n);
23     int arr[n];
24
25     for (int i = 0; i < n; i++)
26         scanf("%d", &arr[i]);
27
28     int duplicate = findDuplicate(arr, n);
29     printf("%d\n", duplicate);
30
31     return 0;
32 }
33

```

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

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