



SRIRAM S (12/08/2006) 2024-IT ▾

**S2****Started on** Wednesday, 5 November 2025, 4:15 AM**State** Finished**Completed on** Wednesday, 5 November 2025, 4:20 AM**Time taken** 5 mins 16 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  #include<stdlib.h>
3
4  int findDuplicate(int arr[], int n) {
5      for (int i = 0; i < n; i++) {
6          int index = abs(arr[i]) - 1;
7          if (arr[index] < 0)
8              return abs(arr[i]);
9          arr[index] = -arr[index];
10     }
11     return -1; // No duplicate found
12 }
13
14 int main() {
15     int n;
16     scanf("%d", &n);
17     int arr[n];
18
19     for (int i = 0; i < n; i++)
20         scanf("%d", &arr[i]);
21
22     int duplicate = findDuplicate(arr, n);
23     printf("%d\n", duplicate);
24
25     return 0;
26 }
27

```

	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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