

Started on Friday, 17 October 2025, 7:12 PM

State Finished

Completed on Friday, 17 October 2025, 7:49 PM

Time taken 36 mins 54 secs

Marks 1.00/1.00

Grade **10.00** out of 10.00 (**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 #include<stdlib.h>
3 int main()
4 {
5     int n;
6     scanf("%d",&n);
7     int*arr=(int*)malloc(n*sizeof(int));
8     if(arr==NULL)
9     {
10         return 1;
11     }
12     for(int i=0;i<n;i++)
13     {
14         scanf("%d",&arr[i]);
15     }
16     int* count=(int*)calloc(n+1,sizeof(int));
17     if(count==NULL)
18     {
19         free(arr);
20         return 1;
21     }
22     for(int i=0;i<n;i++)
23     {
24         count[arr[i]]++;
25         if(count[arr[i]]>1)
26     {
27             printf("%d\n",arr[i]);
28             break;
29         }
30     }
31     free(arr);
32     free(count);
33     return 0;
34 }
```

	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.