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Started on	Monday, 19 August 2024, 10:26 AM
State	Finished
Completed on	Monday, 19 August 2024, 10:45 AM
Time taken	18 mins 52 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  int dup(int arr[],int n){
3      for(int i=0;i<n;i++){
4          scanf("%d",&arr[i]);
5          for(int j=0;j<i;j++){
6              if(arr[j]==arr[i])
7                  return arr[i];
8          }
9      }
10     return -1;
11 }
12 int main(){
13     int arr[50],n;
14     scanf("%d",&n);
15     printf("%d",dup(arr,n));
16     return 0;
17 }
18 /*int main(){
19     int n,chk;
20     scanf("%d",&n);
21     int arr[50];
22     for(int i=0;i<n;i++){
23         scanf("%d",&arr[i]);
24     }
25
26     chk=arr[0];
27     for(int i=1;i<n;i++){
28         if(chk==arr[i])
29             printf("%d",arr[i]);
30         else
31             chk=arr[i];
32     }
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.

◀ 4-DP-Longest non-decreasing Subsequence

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