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Started on	Monday, 19 August 2024, 10:25 AM
State	Finished
Completed on	Monday, 19 August 2024, 10:32 AM
Time taken	7 mins 38 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
3  int duplicate(int arr[],int n){
4      for(int i=0;i<n;i++){
5          scanf("%d",&arr[i]);
6          for(int j=0;j<i;j++){
7              if(arr[j]==arr[i])
8                  return arr[i];
9          }
10     }
11     return -1;
12 }
13 int main(){
14     int n,arr[50];
15     scanf("%d",&n);
16     printf("%d",duplicate(arr,n));
17     return 0;
18 }
```

	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 ▶](#)

