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Started on	Tuesday, 20 August 2024, 2:37 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 2:43 PM
Time taken	6 mins 2 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 main(){
3      int n,a,f=0;
4      scanf("%d",&n);
5      int arr[n];
6      for(int i=0;i<=n;i++) scanf("%d",&arr[i]);
7      for(int i=0;i<n;i++){
8          a=arr[i];
9          for(int j=i+1;j<n;j++){
10             if(a==arr[j]) {f=1; break;}
11         }
12         if (f) break;
13     }
14     printf("%d",a);
15 }
```

	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 ▶