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Started on	Friday, 16 August 2024, 1:38 PM
State	Finished
Completed on	Friday, 16 August 2024, 1:44 PM
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  int main()
3  {
4      int n;
5      scanf("%d",&n);
6      int a[n];
7      for(int i=0;i<n;i++)
8          scanf("%d",&a[i]);
9      for(int i=0;i<n;i++)
10         {
11             for(int j=i+1;j<n;j++)
12             {
13                 if(a[i]==a[j])
14                     printf("%d",a[i]);
15             }
16         }
17 }
```

	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 ▶