<u>Dashbo</u>... / <u>My cour</u>... / <u>CS23331-DAA-2023-</u>... / <u>Competitive Program</u>... / <u>1-Finding Duplicates-O(n^2) Time Complexity,O(1) Space Com</u>...

Started on	Tuesday, 8 October 2024, 1:45 PM
State	Finished
Completed on	Tuesday, 8 October 2024, 1:45 PM
Time taken	15 secs
Marks	1.00/1.00
C I.	4.00 - 1 - (4.00 (4.000))

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 1 2 3 4			

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
    int f(int arr[], int n) {
 3 ₹
4
5
     int b=arr[0];
6
7
     int c=arr[0];
8
9 ,
     do {
10
      b = arr[b];
11
12
      c= arr[arr[c]];
13
14
15
     } while (b!=c);
16
     b= arr[0];
17
18
     while (b!= c) {
19
20
      b= arr[b];
21
22
23
      c= arr[c];
24
25
26
27
     return b;
28
29
30
31 •
    int main() {
32
33
     int n;
34
35
     scanf("%d", &n);
36
37
     int arr[n];
38
39
     for (int i = 0; i < n; i++) {</pre>
40
41
      scanf("%d", &arr[i]);
42
43
44
45
     int d=f(arr, n);
46
47
     printf("%d\n", d);
48
49
     return 0;
50
51
```

	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

Jump to...

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