<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, 27 August 2024, 1:38 PM
State	Finished
Completed on	Tuesday, 27 August 2024, 2:06 PM
Time taken	28 mins 10 secs
Marks	1.00/1.00
Cuada	4.00 put of 4.00 (4009)

```
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>
 2 v int f(int arr[], int n) {
 3
      int b=arr[0];
 4
       int c=arr[0];
 5 •
      do {
 6
         b = arr[b];
 7
         c= arr[arr[c]];
 8
       } while (b!=c);
      b= arr[0];
 9
10
      while (b!= c) {
         b= arr[b];
11
12
         c= arr[c];
13
14
      return b;
15
16 • int main() {
      int n;
17
18
       scanf("%d", &n);
19
       int arr[n];
      for (int i = 0; i < n; i++) {
  scanf("%d", &arr[i]);</pre>
20
21
22
      int d=f(arr, n);
23
      printf("%d\n", d);
24
25
       return 0;
26 }
```

	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 ►