<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, 2:11 PM
State	Finished
Completed on	Tuesday, 1 October 2024, 11:40 AM
Time taken	34 days 21 hours
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 1 2 3 4			

Answer: (penalty regime: 0 %)

```
#include <stdio.h>
 1
 2
 3 v int f(int arr[], int n) {
 4
      int s = arr[0];
 5
      int fa= arr[0];
 6 🔻
      do {
 7
        s = arr[s];
        fa= arr[arr[fa]];
 8
 9
      } while (s != fa);
10
      s= arr[0];
11 •
      while (s!= fa) {
12
        s= arr[s];
13
        fa= arr[fa];
14
      }
15
      return s;
16
17 v int main(){
      int n;
18
19
      scanf("%d", &n);
20
      int arr[n];
      for (int i = 0; i < n; i++) {
21 •
        scanf("%d", &arr[i]);
22
23
      int d = f(arr, n);
24
25
      printf("%d\n", d);
26
      return 0;
27
28
```

	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.

■ 5-Implementation of Quick Sort

Jump to...

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