```
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 | int f(int arr[], int n) {
 3
       int a=arr[0];
       int b= arr[0];
 4
 5 •
       do {
 6
         a= arr[a];
 7
         b= arr[arr[b]];
 8
       } while (a!=b);
       a= arr[0];
 9
10 •
       while (a!=b) {
11
         a= arr[a];
12
         b= arr[b];
13
14
       return a;
15
16 • int main() {
17
       int n;
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);
printf("%d\n", d);
23
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.