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Sequence Equation

locked

by zemen

Problem

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You are given a sequence of n integers, $p(1), p(2), \dots, p(n)$. Each element in the sequence is distinct and satisfies $1 \leq p(x) \leq n$. For each x where $1 \leq x \leq n$, find any integer y such that $p(p(y)) \equiv x$ and print the value of y on a new line.

Input Format

The first line contains an integer, n , denoting the number of elements in the sequence.

The second line contains n space-separated integers denoting the respective values of $p(1), p(2), \dots, p(n)$.

Constraints

- $1 \leq n \leq 50$
- $1 \leq p(x) \leq 50$, where $1 \leq x \leq n$.
- Each element in the sequence is distinct.

Output Format

For each x from 1 to n , print an integer denoting any valid y satisfying the equation $p(p(y)) \equiv x$ on a new line.

Sample Input 0

```
3
2 3 1
```

Sample Output 0

```
2
3
1
```

Explanation 0

Given the values of $p(1) = 2$, $p(2) = 3$, and $p(3) = 1$, we calculate and print the following values for each x from 1 to n :

- $x = 1 \equiv p(3) = p(p(2)) = p(p(y))$, so we print the value of $y = 2$ on a new line.
- $x = 2 \equiv p(1) = p(p(3)) = p(p(y))$, so we print the value of $y = 3$ on a new line.
- $x = 3 \equiv p(2) = p(p(1)) = p(p(y))$, so we print the value of $y = 1$ on a new line.

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Submissions: 2148

Max Score: 20

Difficulty: Easy

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C#



```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
```

```
4 using System.Linq;
5
6 namespace Solution {
7 class Solution {
8     static void Main(string[] args) {
9         /* Enter your code here. Read input from STDIN. Print output to STDOUT */
10        int n = int.Parse(Console.ReadLine());
11        int[] a = Array.ConvertAll(Console.ReadLine().Split(' '), e => int.Parse(e));
12
13        //3
14        // int[] a = { 2, 3, 1 };
15        for (int i = 1; i <= a.Length; i++)
16        {
17            //int pos = i+1;
18            int pos = Array.IndexOf(a, i)+1;
19            int indice_pos = Array.IndexOf(a, pos);
20            Console.WriteLine(indice_pos + 1);
21        }
22    }
23 }
24 }
25
```

Line: 21 Col: 14

 Upload Code as File☐ Test against custom input

Run Code

Submit Code

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