



# Sequence Equation

 by [zemen](#)

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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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Max Score: 20

Difficulty: Easy

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```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8     public static void main(String args[] ) throws Exception {
9         /* Enter your code here. Read input from STDIN. Print output to STDOUT */
10    }
11 }
12
```

Line: 1 Col: 1

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