

Sherlock a Detective

Submissions: 1545 (/problem_submissions.php?pid=1706) Accuracy: 49.74% Difficulty: Basic
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Problems

Sherlock is a famous detective. This time he's working to catch a team of gangsters. Sherlock knows that the head of gangsters will be caught if he catches his underlings. The gangsters work under a hierarchical system. Each member reports exactly to one other member of the town. It's clear that there are no cycles in their reporting system. There are N people in the town, for simplicity indexed from 1 to N , and Sherlock knows who each of them report to. Member i reports to member A_i , and head of Gangsters does not report to anybody. Sherlock wants to find the members to whom nobody reports as these members could help him bring down the organization.

Input:

First line consists of T test cases.

The first line every test case contains of one integer N .

Next line has N space-separated integers. The i -th integer denotes A_i , the person whom the i -th member reports to.

Output:

Single line output in ascending order, denoting the members of gangsters who nobody reports to.

Constraints:

$1 \leq T \leq 100$

$1 \leq N \leq 10^5$

$1 \leq A_i \leq N$ except for leader of gangsters, whose A_i equals to 0.

Example:**Input:**

1

6

0 1 1 2 2 3

Output:

4 5 6

Explanation:

For testcase1: N=6 and A={0,1,1,2,2,3}

A[0]=0, A[1]=1, A[2]=1, A[3]=2, A[4]=2, A[5]=3.

A[0] is the head. 1 reports to 1. 2 reports to 1. 3 reports to 2. 4 reports to 2. 5 reports to 3.

So, the people not being being reported are 4, 5 and 6.

**** For More Input/Output Examples Use 'Expected Output' option ****

Contributor: Saksham Raj Seth

Author: saksham seth (https://auth.geeksforgeeks.org/user/saksham_seth/practice/)

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