

HARD

Welcome to the IECSE Family! As a member of IECSE working committee there is an immediate senior who you will report to. Thus you are given for $N-1$ members of IECSE the list of the immediate seniors they report to. Determine for each of the N members how many members they have working under them. Member 1 is the chairperson and thus has to report to nobody.

Input Format:

The firstline of input has an integer N : the number of members ($1 \leq N \leq 10^6$). The members are numbered $1, 2, \dots, N$. Member 1 is the chairperson of IECSE.

The second line of input has $N-1$ integers: for each member $2, 3, \dots, N$ the immediate senior they report to.

[Contests](#)[Questions](#)[Leaderboard](#)[< Prev](#)

Type here to search



Working Committee

are numbered $1, 2, \dots, N$. Member 1 is the chairperson of IECSE.

The second line of input has $N-1$ integers: for each member $2, 3, \dots, N$ the immediate senior they report to.

Output Format:

Print N integers: for each member $1, 2, \dots, N$ the number of members working under them.

Example 1:

Input:

5

Copy

</> Contests

≡ Questions

🏆 Leaderboard

< Prev



Type here to search



Working Committee

Example 1:

Input:

5

1 1 2 3

Copy

Output:

4 1 1 0 0

Constraints:

$$1 \leq N \leq 2 \cdot 10^5$$

Contests

Questions

Leaderboard

< Prev



Type here to search

