orking committee

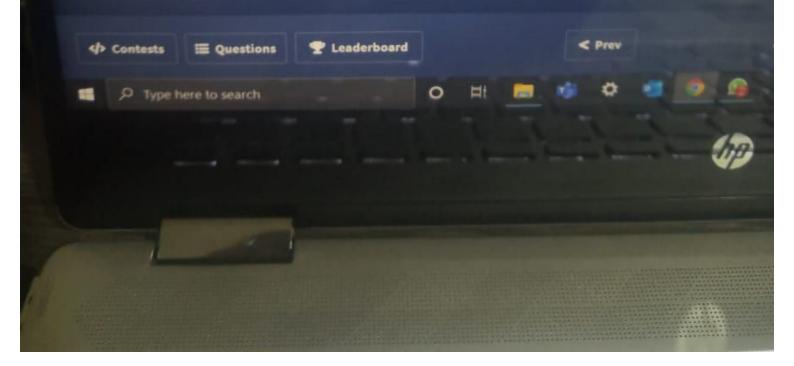
HARD

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.

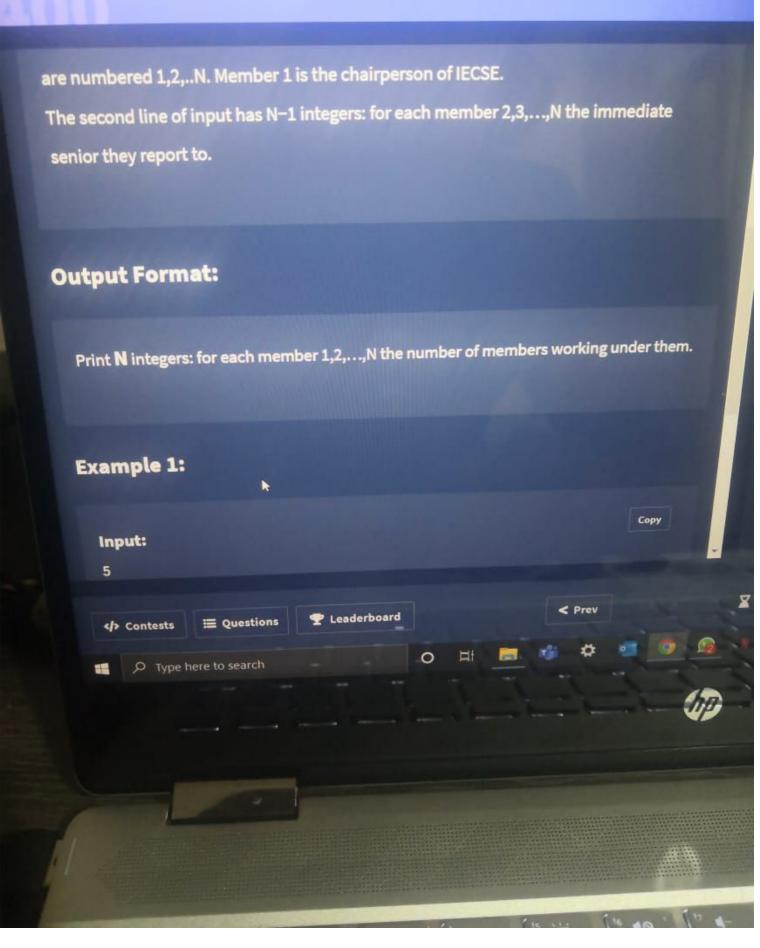
Input Format:

The firstline of input has an integer N : the number of members (1≤N≤10⁶). The members are numbered 1,2,..N. Member 1 is the chairperson of IECSE.

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



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