GD7:Monitoring a spy network (1 sec)

問題描述 :

A spy network consists of N spies and every spy except for the chief has exactly one direct leader. Communication only happens between a spy and his direct leader, and all spies use a special kind of phones to communicate. We want to record all the communications in the spy network by monitoring the phones of some spies. To record the communication between spies A and B, we need to monitor the phone of A or B, or both. For the sake of safety, the number of phones we monitor should be minimized. Given the structure of a spy network, your job is to compute the minimized number of monitored phones such that all the communication can be recorded.

輸入說明:

The input consists of a number of test cases. The first line is an integer T which is the number of test cases, and the test cases follow one by one. The input of a test case consists of two lines. The first line contains an integer N, 0<N<10000, which is the number of spies. Each spy has a unique ID between 0 and N-1. For each spy, his/her ID must be larger than the ID of his/her direct leader. The chief has ID 0 and is the only one without direct leader. The second line contains N-1 integers t(1), t(2),…,t(N-1) such that t(i) is the direct leader of i for all i. Any two consecutive numbers in the same line are separated by a space.

輸出說明:

Output the minimized number of phones to be monitored.

範例:

Sample Input:	**Sample Output:**
1 5 0 1 1 3	2