大视野在线测评

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站

Notice: 1:由于本OJ建立在Linux平台下,而许多题的数据在Windows下制作,请注意输入、输出语句及数据类型及范围,避免无谓的RE出现。 2:本站即将推出针对初学者的试题系统(与目前OJ是分开的,互不影响),内容覆盖从语法入门到NOI的所有知识点,敬请关注。

3637: Query on a tree VI

Time Limit: 8 Sec Memory Limit: 1024 MB

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Description

You are given a tree (an acyclic undirected connected graph) with *n* nodes. The tree nodes are numbered from 1 to *n*.

Each node has a color, white or black. All the nodes are black initially.

We will ask you to perfrom some instructions of the following form:

- 0 u : ask for how many nodes are connected tou, two nodes are connected iff all the node on the path from u to v (inclusive u and v) have a same color.
- 1 *u* : toggle the color of *u*(that is, from black to white, or from white to black).

Input

The first line contains a number n denoted how many nodes in the tree($1 \le n \le 10^5$). The next n-1 lines, each line has two numbers (u, v) describe a edge of the tree($1 \le u, v \le n$). The next line contains a number m denoted how many operations we are going to process($1 \le m \le 10^5$). The next m lines, each line describe a operation (t, u) as we mentioned above($0 \le t \le 1, 1 \le u \le n$).

Output

Sample Input	
5	
1 2	
1 3	
1 4	
1 5	
3	
0 1	
1 1	
0 1	
Sample Output	
5	
1	
HINT	
Source	
By xiaodao	
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For each query operation, output the corresponding result.