大视野在线测评

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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。

3639: Query on a tree VII

Time Limit: 10 Sec Memory Limit: 512 MB

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Description

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

Each node has a color, white or black, and a weight.

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

- 0 *u* : ask for the maximum weight among the nodes which are connected to*u*, 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).
- 2 *u w*: change the weight of *u* to *w*.

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 2 lines, each line contains n number, the first line is the initial color of each node(0 or 1), and the second line is the initial weight, let's say W_i , of each node($|W_i| \le 10^9$).

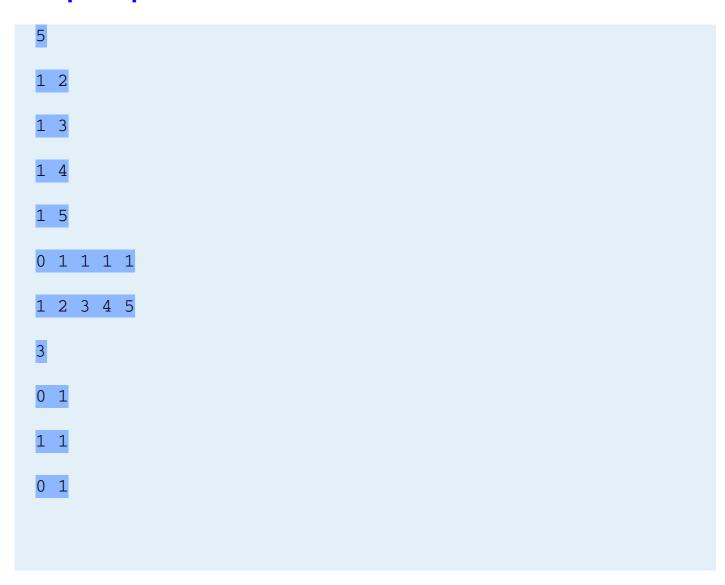
The next line contains a number m denoted how many operations we are going to process $(1 \le m \le 10^5)$. The next m lines, each line describe a operation (t, u) as we

mentioned above $(0 \le t \le 2, 1 \le u \le n, |w| \le 10^9)$.

Output

For each query operation, output the corresponding result.

Sample Input



Sample Output

1 5

HINT

Source

By xiaodao

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