## Palindrome in a Tree

John has got a tree with $N$ vertices. The vertices are numbered from 1 to $N$. He considers vertex 1 as the root of the tree. Each vertex of the tree contains a character C.

Now John is doing a weird experiment with this tree.
He often changes the character of a node in the tree and then sometimes he randomly selects a node $v$ and tries to form a palindrome with all the characters in the subtree of node v.

But since John is very busy man and has a lot of other important experiments to do he needs your help on this one.

## INPUT:

First line of the input contains an integer $N(1<=N<=100000)$ denoting the number of vertices.
Next $N-1$ lines contains two integers $A$ and $B(1<=A, B<=N)$ which means there is an edge between vertex $A$ and $B$.
Next line contains a string of length $N$. The ith character of this string denotes the character in node $i$.
Then there will be an integer $\mathrm{M}(1<=\mathrm{M}<=100000)$ in a separate line denoting the number of queries. Next M lines will contain a query.

Each query will be in one of the following form:
$\mathbf{0 x} \mathbf{C}$ : which means the character of node x has been changed to C .
$1 \mathbf{x}$ : which means you are asked to answer if a palindrome can be formed with all the characters in the sub tree of node $x$. There will be at least one query of this type.

## OUTPUT:

For each query of the form " $\mathbf{1 x}$ " print "YES" if a palindrome can be formed with all the characters in subtree of node $x$. Otherwise print "NO" (without the quotes).
(All the characters in the input will be small letters of English alphabet. i.e. a, b, c... x, y, z).
See sample input /sample output for details.

| Sample Input | Sample Output |
| :---: | :---: |
| 7 | NO |
| 54 | YES |
| 15 | YES |
| 63 | YES |
| 17 | NO |
| 56 |  |
| 62 |  |
| abdaabc |  |
| 7 |  |
| 11 |  |
| 15 |  |
| 13 |  |

In the $2^{\text {nd }}$ query, the formed palindrome can be "badab" or "abdba"
In the $3^{\text {rd }}$ query, there is only 1 character " $d$ ", which is palindrome.

