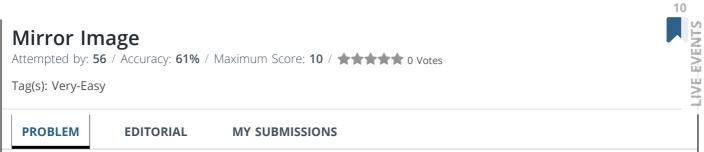


All Tracks > Data Structures > Trees > > Problem



You are given a binary tree rooted at 1. You have to find the mirror image of any node q<sub>i</sub> about node 1. If it doesn't exist then print -1.

Input:

First line of input is N and Q.

Next N-1 line consists of two integers and one character first of whose is parent node, second is child node and character "L" representing Left child and "R" representing right child.

Next Q lines represents qi.

Output:

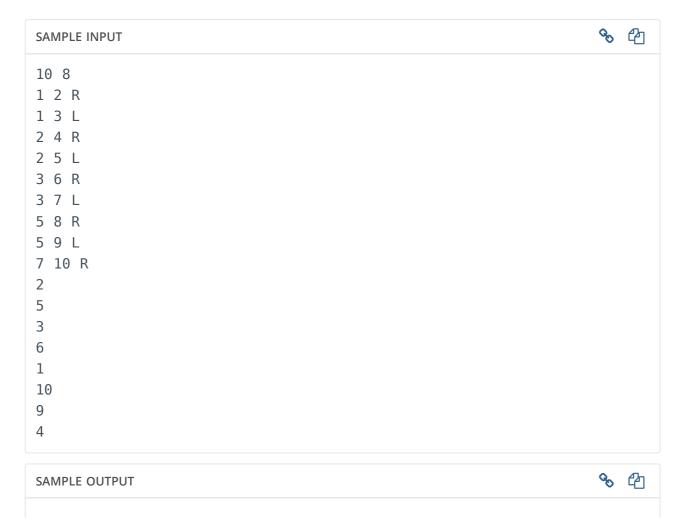
For each q<sub>i</sub> print it mirror node if it exists else print -1.

NOTE: 1 is mirror image of itself.

Constraints:

$$1 \le N \le 10^3$$

$$1 <= Q <= 10^3$$



Time Limit: 1.0 sec(s) for each input file. **Memory Limit:** 256 MB 1024 KB **Source Limit: Marking Scheme:** Marks are awarded when all the testcases pass. Allowed Languages: C, C++, Clojure, C#, D, Erlang, F#, Go, Groovy, Haskell, Java, Java 8, JavaScript(Rhino), JavaScript(Node.js), Lisp, Lisp (SBCL), Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, R(RScript), Racket, Ruby, Rust, Scala, Scala 2.11.8, Swift, Visual Basic

## **CODE EDITOR**

Enter your code or Upload your code as file. C (gcc 4.8.2) Save #include <stdio.h> 1 2

```
3
   int main()
4
       printf("Hello World!\n");
5
6
       return 0;
7
   }
```

1:1

■ Provide custom input

**COMPILE & TEST** 

**SUBMIT** 

Press Ctrl-space for autocomplete suggestions.

POWERED BY code table