Mirror Image

Attempted by: **56** / Accuracy: **61%** / Maximum Score: **10** / 0 Votes

Tag(s): Very-Easy

PROBLEM EDITORIAL MY SUBMISSIONS

You are given a binary tree rooted at 1. You have to find the mirror image of any node q_i 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 q_i.

Output:

For each q_i print it mirror node if it exists else print -1.

NOTE: 1 is mirror image of itself.

Constraints:

$1 <= N <= 10^3$

$1<= Q <= 10^3$

SAMPLE INPUT

```
10 8
1 2 R
1 3 L
2 4 R
2 5 L
3 6 R
3 7 L
5 8 R
5 9 L
7 10 R
2
5
3
6
1
10
9
4
```

SAMPLE OUTPUT

```
3
6
2
5
1
-1
-1
7
```

10

LIVE EVENTS

Time Limit:	1.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
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. Save C (gcc 4.8.2)

```c
#include <stdio.h>

int main()
{
    printf("Hello World!\n");
    return 0;
}

```

1:1

Provide custom input

COMPILE & TEST SUBMIT

Press Ctrl-space for autocomplete suggestions. POWERED BY code table