PIN code

locked

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A PIN code is hidden in a binary tree. The PIN code is the concatenation of sums of selected levels of the tree. The selected levels start at level 0 (root level) and continues down the tree by K steps every time. For a tree with 9 levels, if K=3, the selected levels will be 0, 3, 6. K is the minimum value of the Lth level % the tree height. L is the value of the root % the tree height. You are allowed to use unordered_map and unordered_set if needed. If K is 0, set to 1 instead.

Input Format

- The first line will contain the number of nodes in the tree N.
- The following N numbers will contain the data in each node.
- The next line will contain the number of edges in the tree E.
- The following E lines will contain 3 values:
  - L or R to represent if this is a left or right child
  - Index of the parent.
  - Index of the child.

Constraints

- N is between 1 and 10^6
- Node 0 is always the root
- Root is in level 0
- Node values are between 1 and 10^4

Output Format

- The concatenation of the sums in one line.

C++14

```cpp
#include <cmath>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;


int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

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