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# Subtrees falling in a range

locked

Problem

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Given a binary search tree and a range [V1, V2]. You are required to find all subtrees that fall range when the root node and all its children from left and right falls also in the same range needed.

#### Input Format

- The first line contains V1
- The second line contains V2
- The third line contains the value of the root node.
- The fourth line contains E (the number of edges)
- The next E lines Contains all the edges in the following format
  - 'R' N1 N2 where 'R' or 'L' refers to the edge direction (right or left) N1 is the parent valu

#### Constraints

- the number of nodes N between 1 and 1000000
- 1 <= V1 <= V2 <= N
- V1 and V2 are inclusive in the range

#### **Output Format**

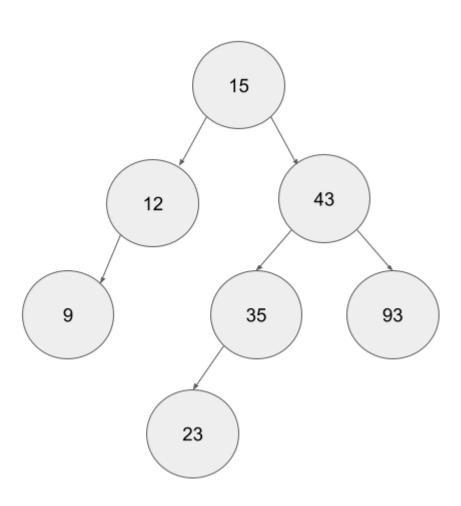
• One line containing the number of subtrees falling in the given range

#### Sample Input 0

## Sample Output 0

2

### Explanation 0



Since the range is from 12 to 59 only the tree rooted at 23 and the tree rooted at 35 falls in t