Validate Benery Learch Tree

Vodetermine if a benon tree in a volid Benon Karch Tree (BST), we are

the key property:

For every node, all values in the left need the must be strectly less than the node's value and all values in the right subtree must be strectly quater than the nade's value.

Vhis condition must had secusively for all modes

Approach: Recursive with Valere Boxends

Idea:

· Cearry minimum and maximum allowed values down to recursion:

· Initially (-90)

· You the left child: new sange = (min, current mode value)

· For the right child: new range - (corrent rock value, max)

If any made vislates the range, return false.

[Complexity:]
- Vime: O(n) - visits each node once.
- Gace: O(h) - recursion stack (h = tree height)

[Why use long long?]

Node values can be-231 to 231-1. We un long long to avoid everylow when setting bounds beyond these values.