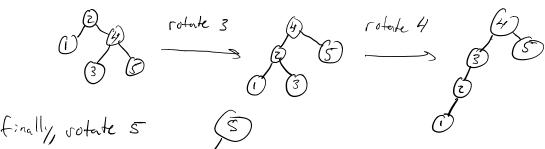
Each rotation takes O(i) time. Any Browny tree can become a lef or right-child-only tree. This is love at the worst-case n-1 times by rotatutry all nodes not already on the lef most path.

<u>ex. 1</u>



where you have either:

- 1) right child rotated to taket
- 2) let child of right child, porent is rotated left and child forces its place
- 3) left child of left child which i's already left most path, or turns into case 2.

In the worst case (n-1 rotations) every node reeds to be rotated except for one node which is already in the left most position. A 3 node tree at a right-child-only setup will only need a max of 2 rotations to transform it into a left most path.

Thus: 3-1=2

· Compasing to two trees would require transforming

T, into a worst-rase left-only tree has n-1

rotations, then checking the operations needed to equal T_2 gives another worst-case of n-1 to rotate all the way back. Thus sommed we have: $(n-1) + (n-1) = [Zn-2 \le 2n]$