Red and Black Tree Balancing

INSERTION & BALANCING:

Step1. Insert New Node

Step2. Perform appropriate transformations (Cases 1, 2, 3 one or more times)

Step3. If root is red, change to black

- Treat null children as Black nodes for the purposes of transformations.
- Inside Child(Node) is the child of a parent node, that is horizontally closer to the root, whereas the Outside Child(Node) is horizontally further away from the root
- Grandparent nodes is the parent's parent node
- Unice (or Aunt) node is the Granparent's other child, (not the inserted node's parent

