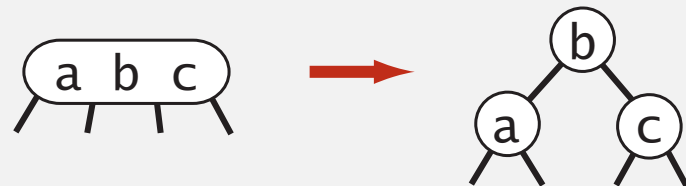


# Global properties in a 2-3 tree

**Invariants.** Maintains symmetric order and perfect balance.

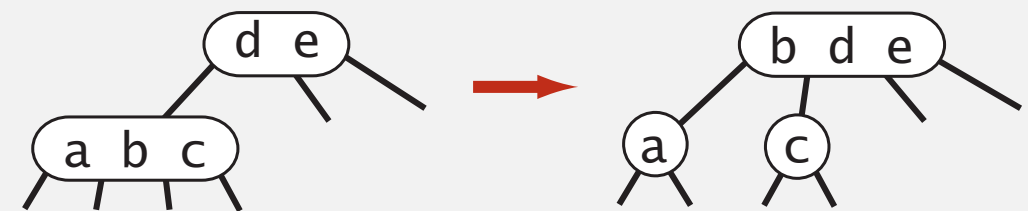
**Pf.** Each transformation maintains symmetric order and perfect balance.

root



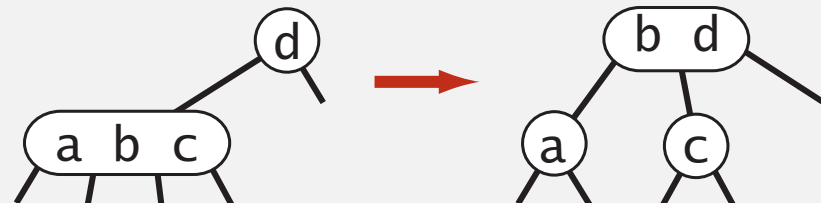
parent is a 3-node

left

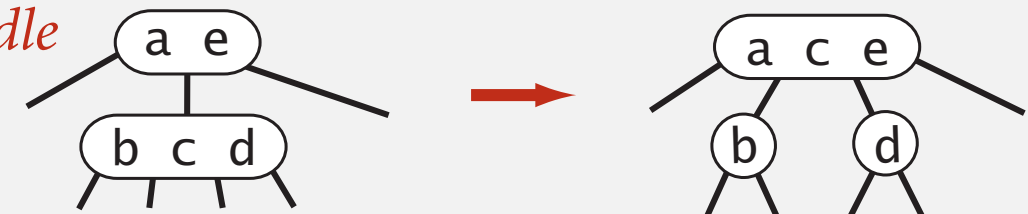


parent is a 2-node

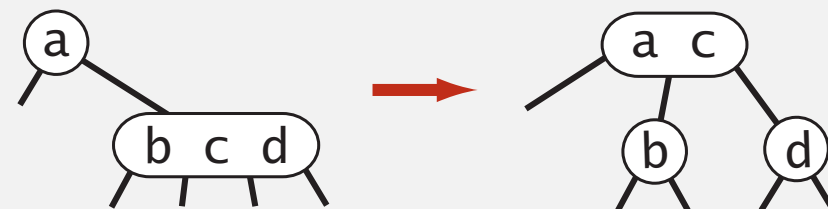
left



middle



right



right

