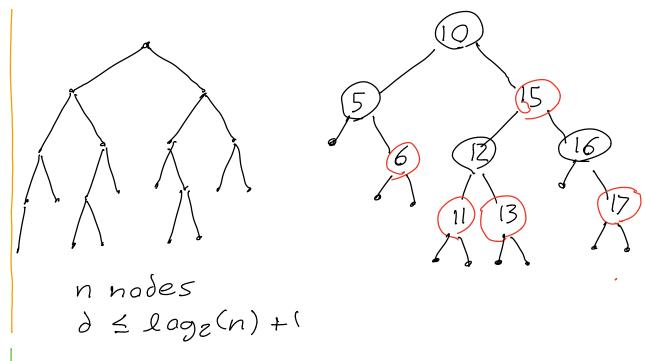
Final Review: Balanced Trees



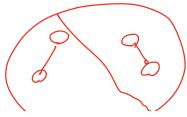
Red-Black trees

Global Invaviant:

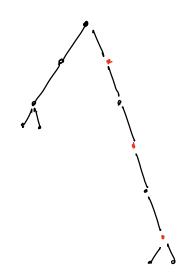
Every root-leaf path has same # af black nades.

Local Inverignt:

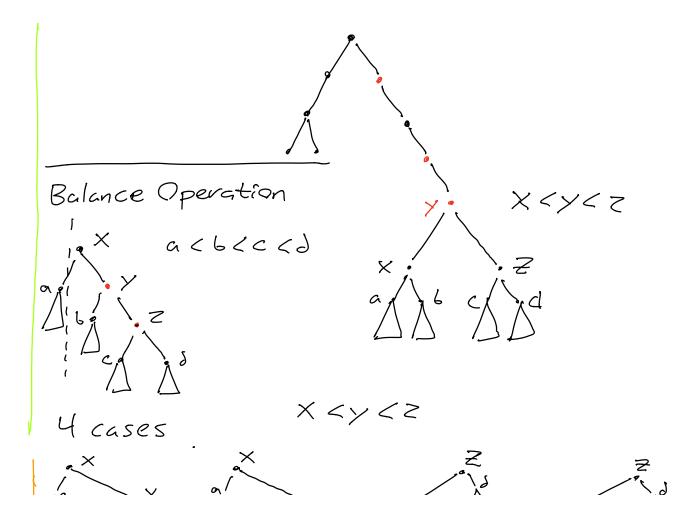
No two red nodes can have parent-child relationship.

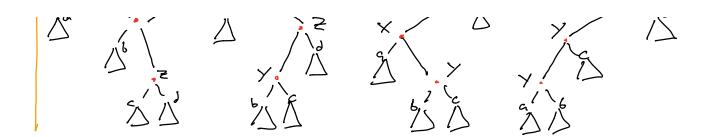


n nodes $\delta \leq 2 \log_2(n)$



4 black nodes
3 red nodes
6 black nodes
6-1 red nodes
26-1





Exercise:

insert 14 into

