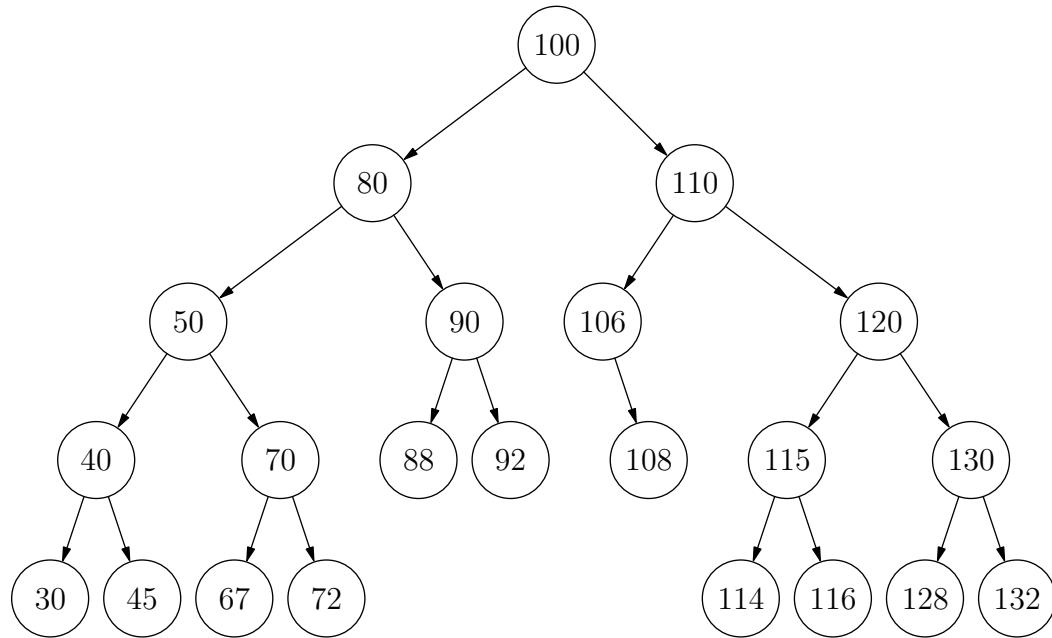


## AVL Rotation Practice



1. What is the balance factor of each of these nodes:
  - a. 70\_\_\_\_\_, 80\_\_\_\_\_, 106\_\_\_\_\_, 100\_\_\_\_\_
2. Insert 28 and draw the new tree after rotation (only draw the changed part)
3. Insert 65 and draw the new tree after rotation (only draw the changed part)
4. Insert 113 and draw the new tree after rotation (only draw the changed part)
5. Insert 129 and draw the new tree after rotation (only draw the changed part)
6. What is the smallest number you can insert in this tree without causing a rotation?
7. Describe an infinite sequence of (real) numbers that can be inserted into this tree, in order, that will never require a rotation, or explain why no such sequence exists