

Quiz AVL Tree

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201524013
1A - 04 Teknik Informatika

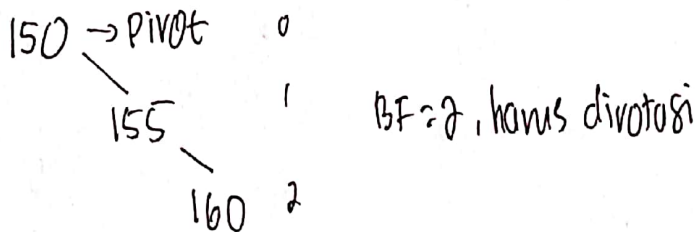
Note =

BF \rightarrow balancefactor

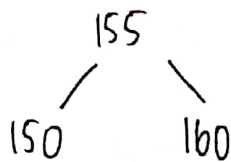
Urutan Insertion :

150, 155, 160, 115, 110, 140, 120, 145, 130, 147, 170, 180

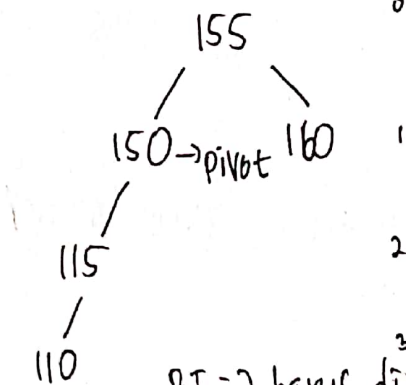
1. Insert 150, 155, dan 160



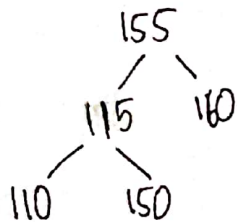
2. Balancing, dengan rotasi ke kiri



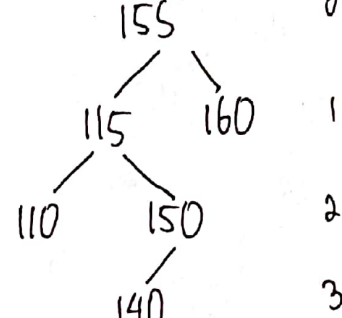
3. Insert 115 dan 110



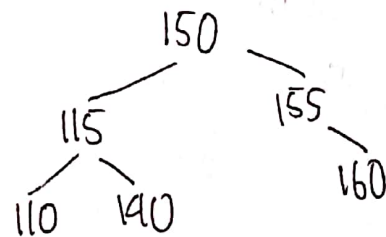
4. Balancing, dengan rotasi ke kanan



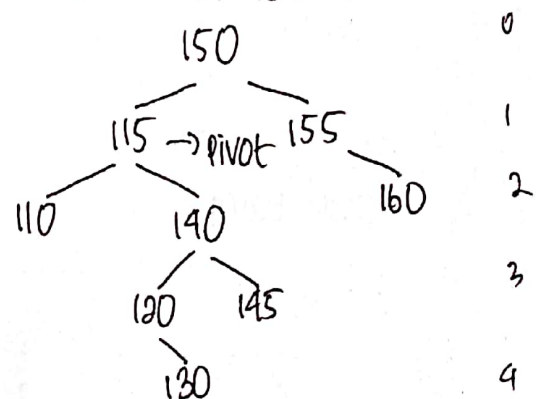
5. Insert 140 \rightarrow pivot



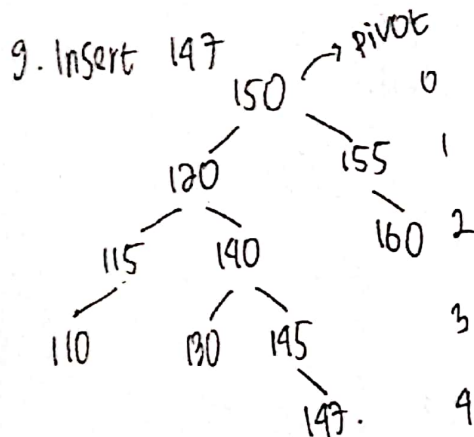
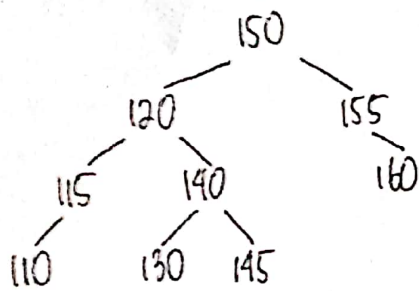
6. Balancing, dengan rotasi ke kiri, lalu rotasi ke kanan



7. Insert 120, 145, 130

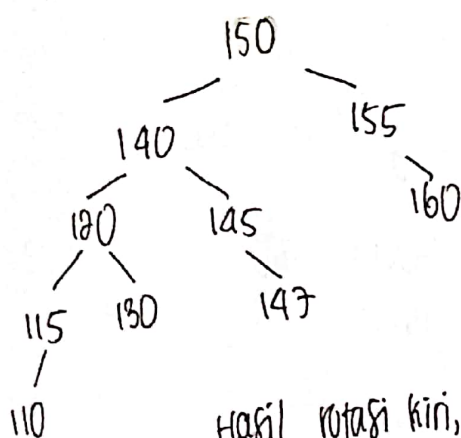


8. Balancing, dengan rotasi kanan
lalu rotasi kiri

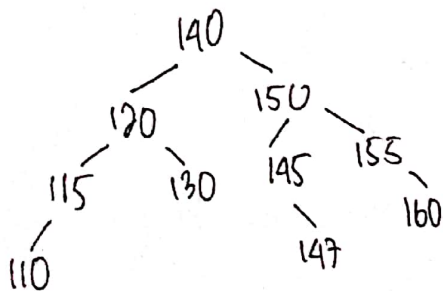


BF=2, harus dirotasi

10. Balancing, dengan rotasi kiri
lalu rotasi kanan

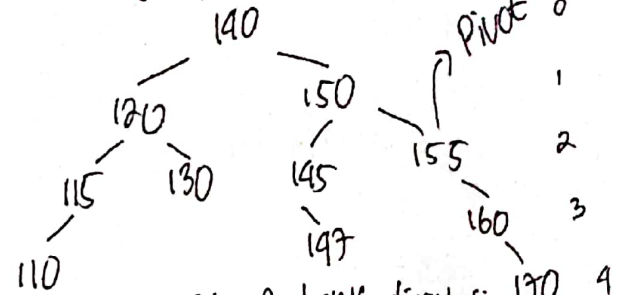


Hasil rotasi kiri,
kemudian rotasi kanan



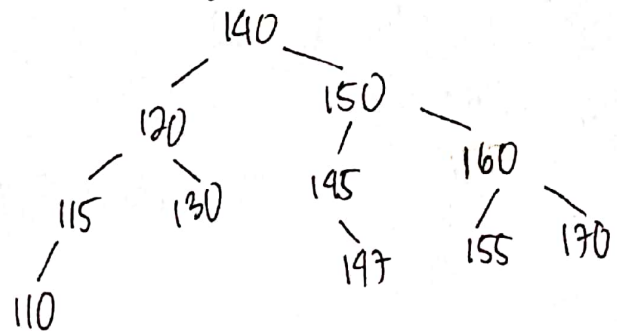
Hasil rotasi kanan

11. Insert 170

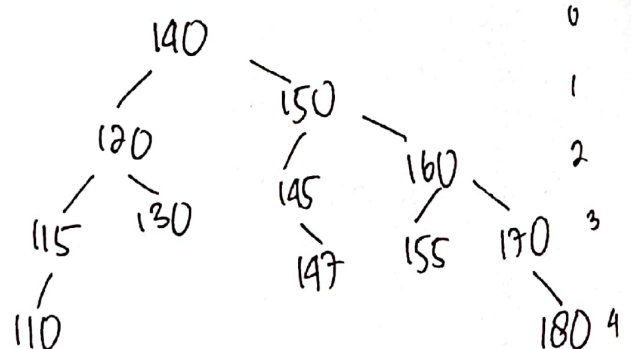


BF=2, harus dirotasi

12. Balancing, dengan rotasi kiri



13. Insert 180



$$-1 \leq BF \leq 1$$

SUDAH SEIMBANG, maka menjadi
Final tree nya