

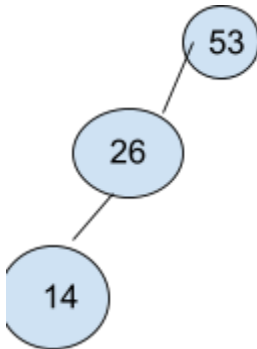
Nome: José Henrique Paludo Giombelli

Disciplina: Estrutura de Dados II

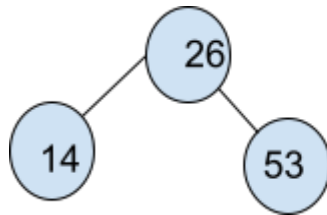
Respostas Atividade 4 (19/07/21)

1:

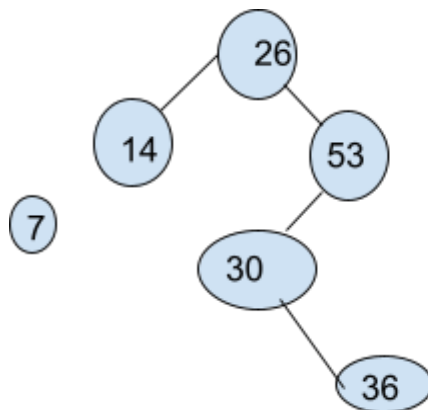
- Inserção de Valores: 53, 26 e 14.



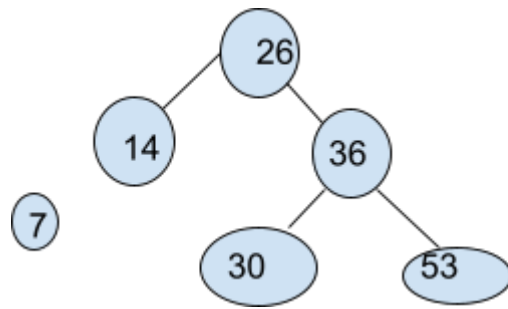
- Giro à Direita LL



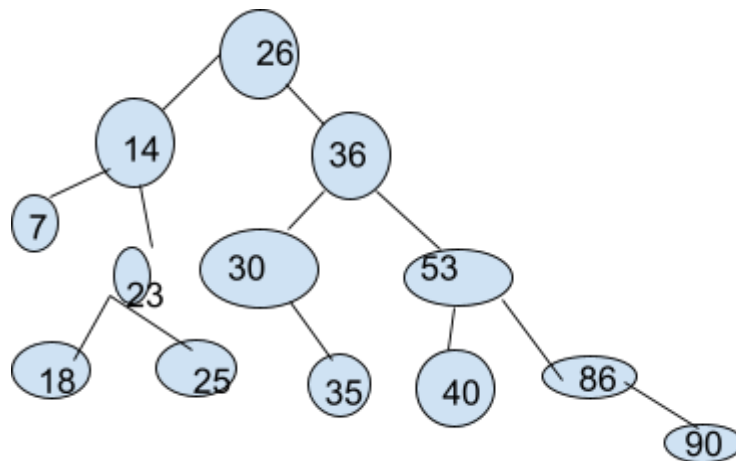
- Inserção dos Valores: 7, 30 e 36



- Giro Duplo a direita:

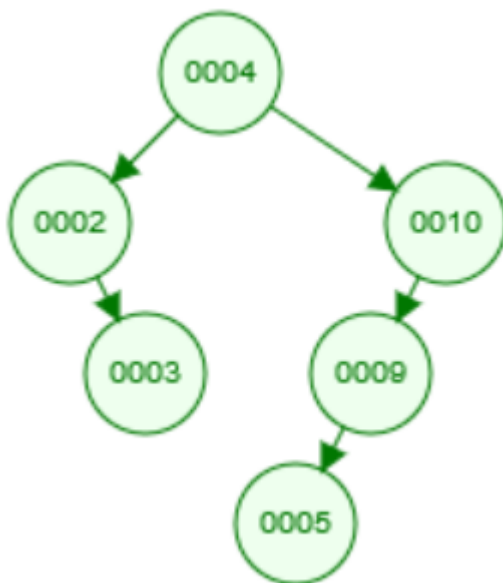


- Inserir Valores: 23, 86, 35, 18, 40, 25 e 90

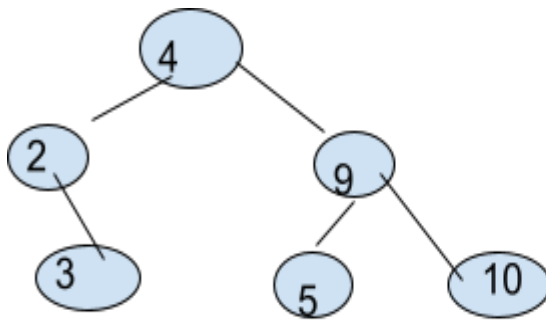


2:

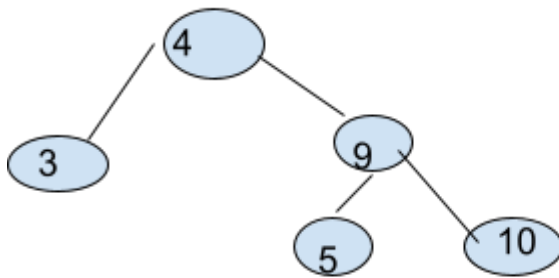
Árvore original



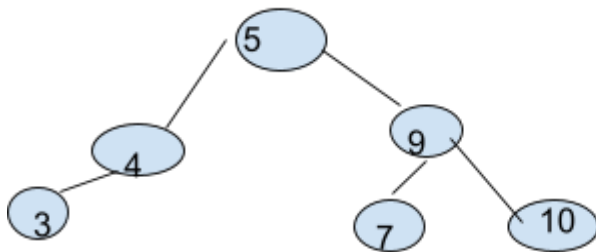
Rotação LL, pois a árvore está desbalanceada no nó 10.



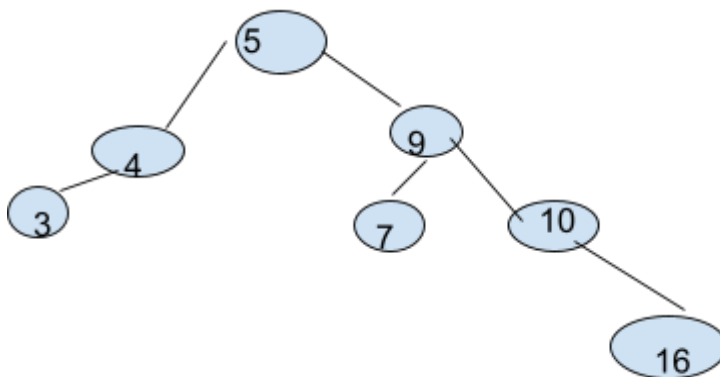
- Remoção do nó 2



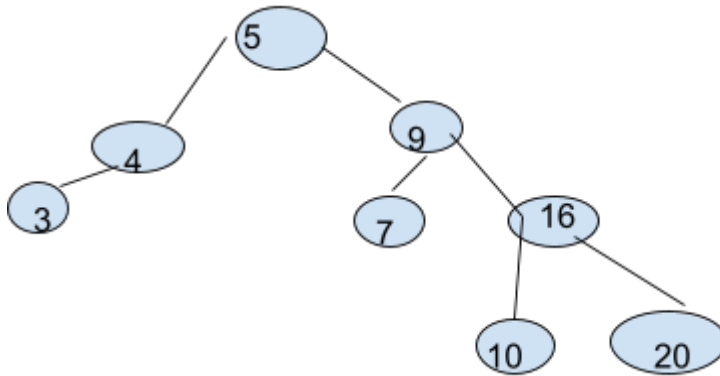
- Incluir o nó 7



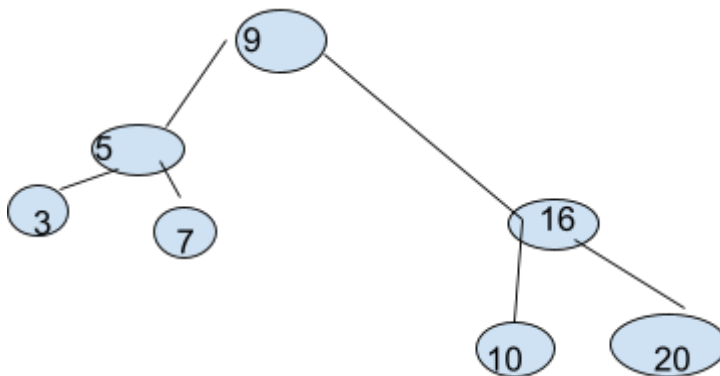
- Incluir o nó 16



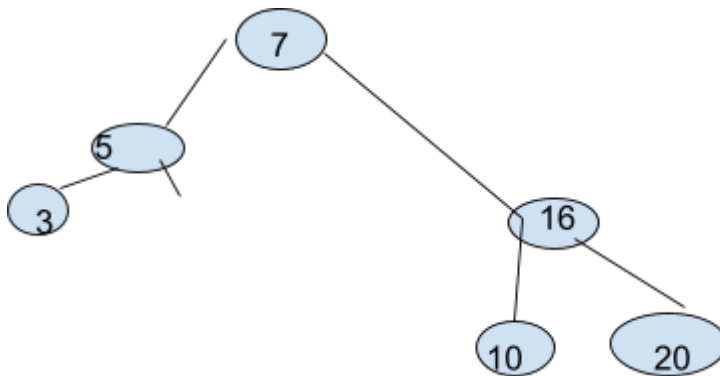
- Incluir o nó 20



- remover o nó 4



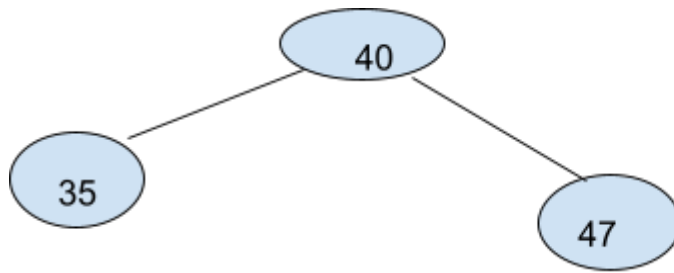
- remover o nó 9



3:

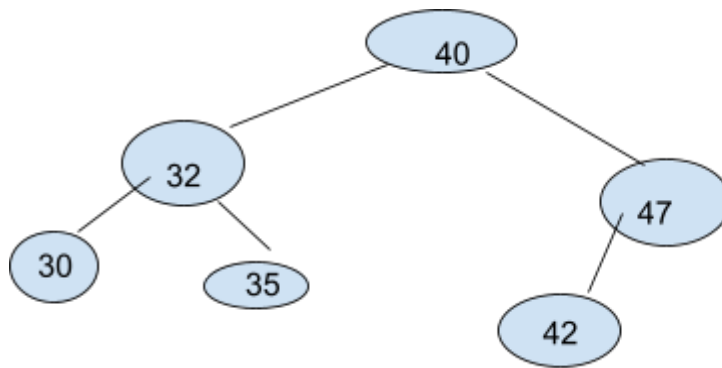
Inserção do 47, 35, 40 : ao inserir o 40 a árvore torna-se desbalanceada no nó 47 $FB = +2$.

Seu filho possui $FB = -1$ positivo com negativo rotação dupla à direita LR



Inserção do 32, 42, 30 :

Ao inserir o 30 a árvore torna-se desbalanceada no nó 35 $FB = +2$ sendo necessário uma rotação simples para a direita LL.



Árvore resultante diferente da árvore original apresentada:

