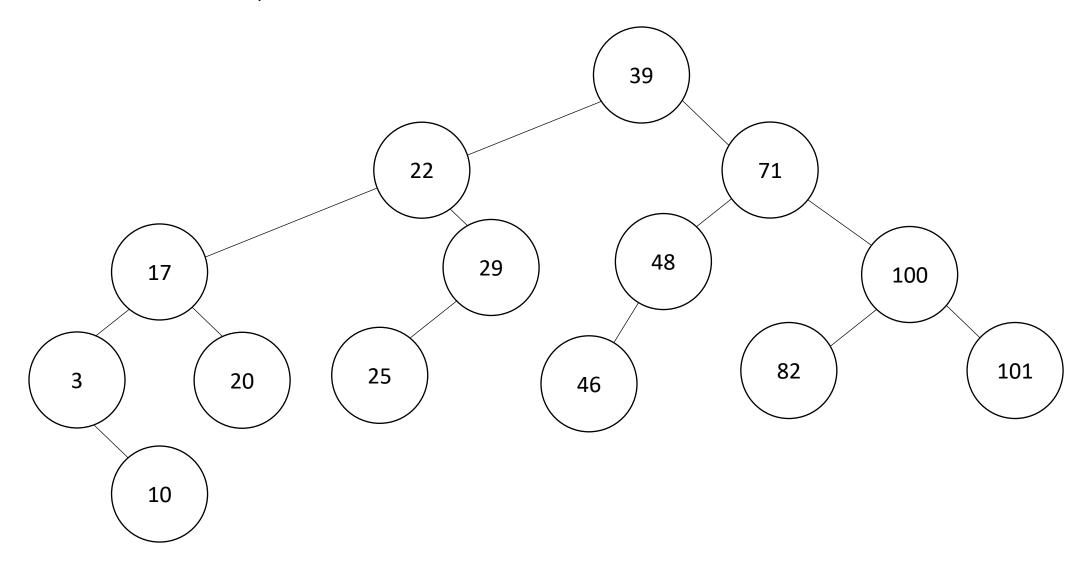


Balanceo de arboles

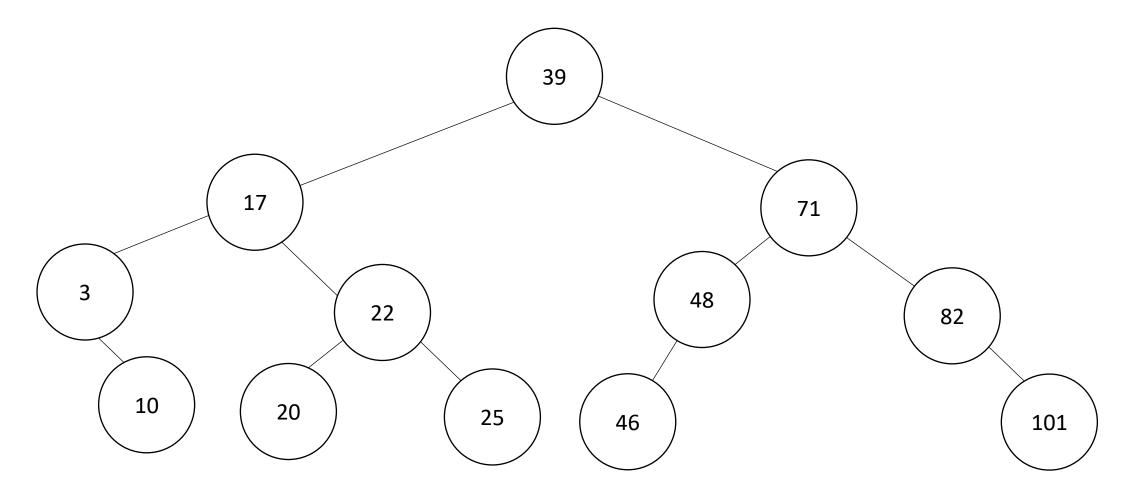
Luis Diego Orozco López 24011289

Ejercicio 1

a. Árbol AVL para: 100, 29, 71, 82, 48, 39, 101, 22, 46, 17, 3, 20, 25, 10:



b. Después de eliminar 29 y 100 del árbol



Ejercicio 2

Inserción de 1, 2, 3, 4, 5, 6, 7, 15, 14, 13, 12, 11, 10, 9 y 8 paso a paso

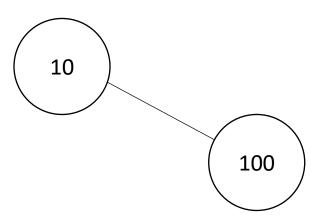
- Raíz (R) = 1
- R(d) = 2
- 2(d) = 3
- Rotación derecha derecha
 - R = 2
 - R(i) = 1
 - R(d) = 3
- 3(d) = 4
- 4(d) = 5
- Rotación derecha derecha
 - R(d) = 4
 - 4(i) = 3
 - 4(d) = 5
- 5(d) = 6
- Rotación derecha derecha
 - R = 4
 - R(i) = 2
 - 2(d) = 3
- 6(d) = 7
- Rotación derecha derecha
 - R(d) = 6
 - 6(i) = 5
 - 6(d) = 7
- 7(d) = 15

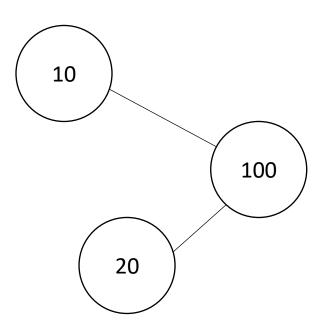
- 7(i) =14
- Rotación derecha izquierda
 - 7(d) = 14
 - 14(d) = 15
 - 6(d) = 14
 - 14(i) = 7
 - 14(d) = 15
- 7(d) = 13
- Rotación derecha izquierda
 - 6(d) = 7
 - 7(d) = 14
 - 14(i) = 13
 - R(d) = 7
 - 7(i) = 6
- 13(i) = 12
- Rotación derecha derecha
 - R = 7
 - 7(i) = 4
 - 4(d) = 6
- 12(i) = 11
- Rotación izquierda izquierda
 - 14(i) = 12
 - 12(d) = 13
 - 12(i) = 11

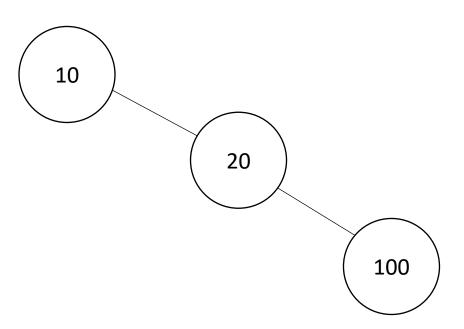
- 11(i) = 10
- Rotación izquierda izquierda
 - R(d) = 12
 - 12(d) = 14
 - 14(i) = 13
- 10(i) = 9
- Rotación izquierda izquierda
 - 12(i) = 10
 - 10(d) = 11
 - 10(i) = 9
- 9(i) = 8
- Fin

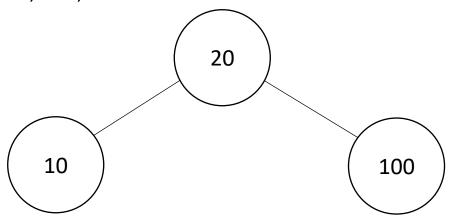
Ejercicio 3

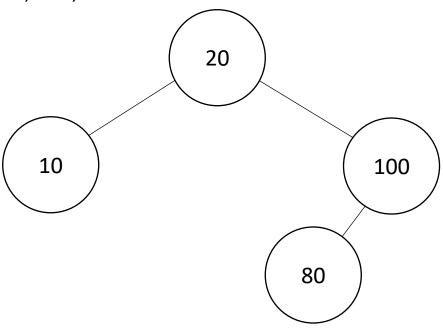


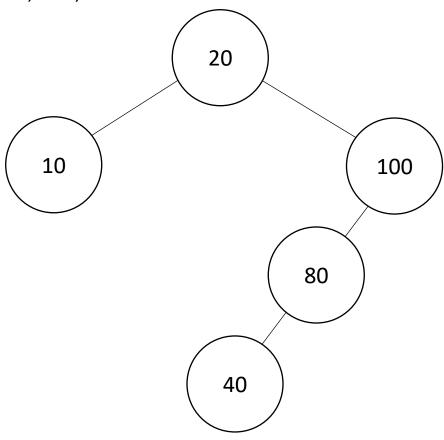


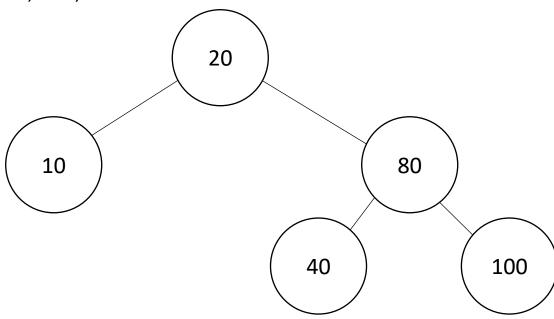


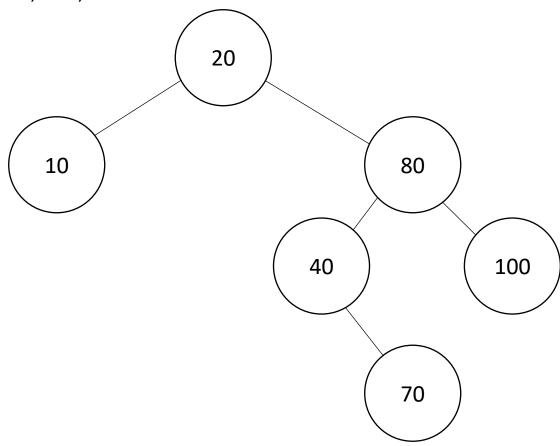


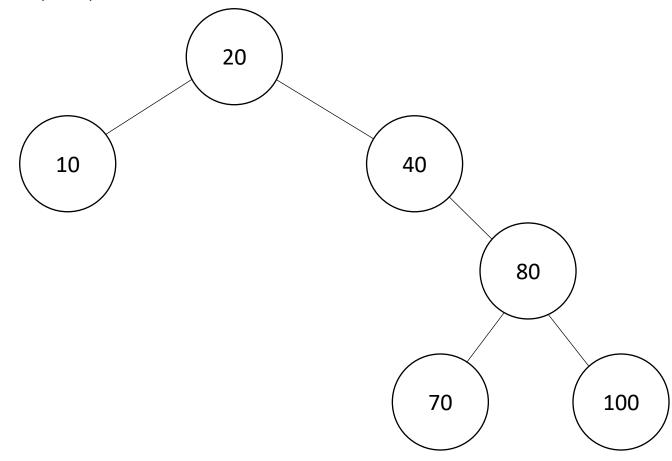


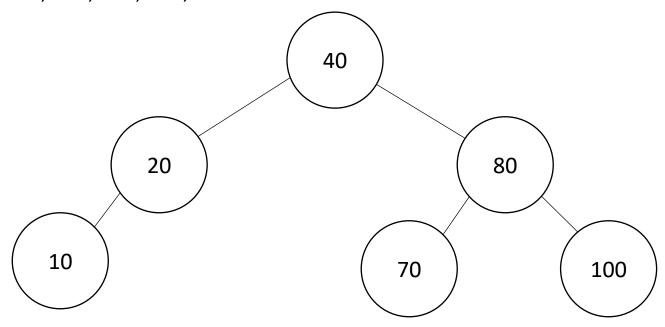


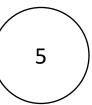


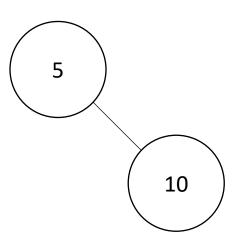


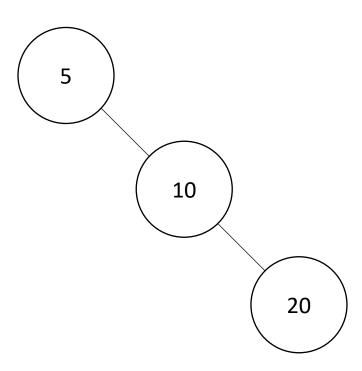


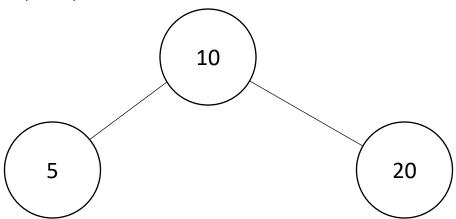


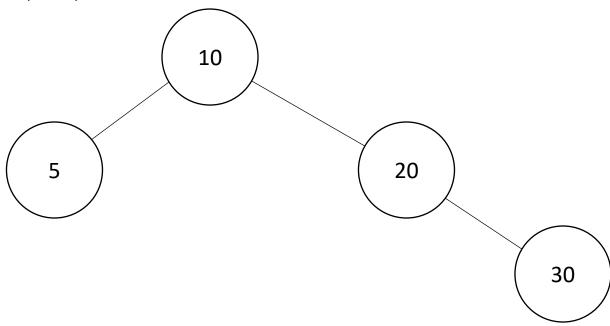


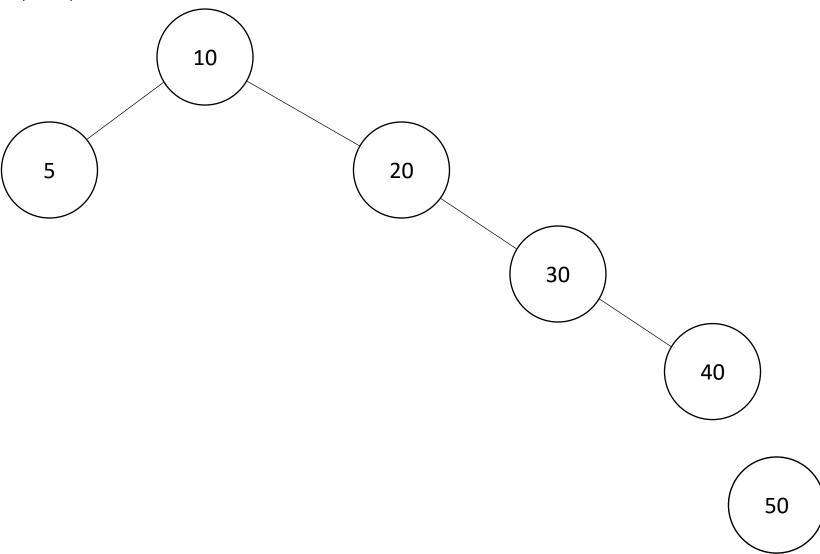


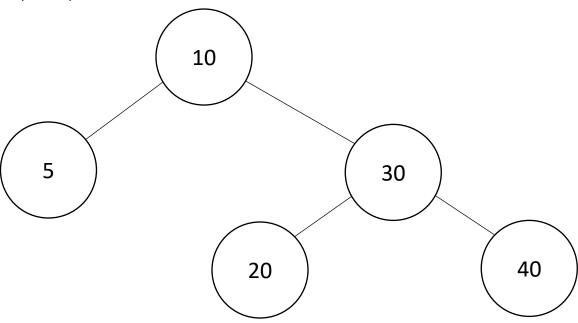




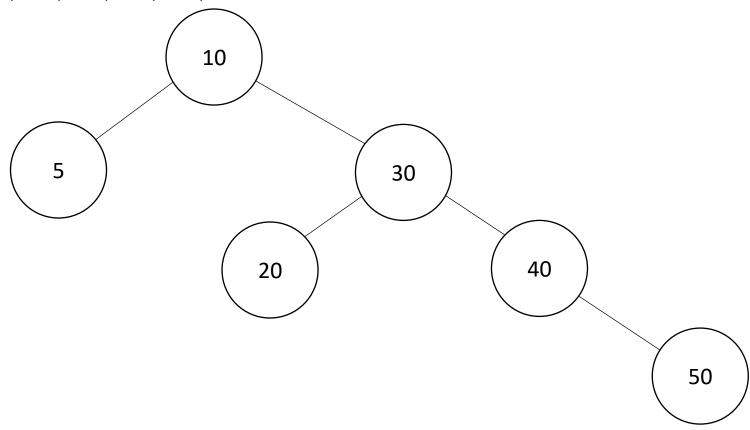


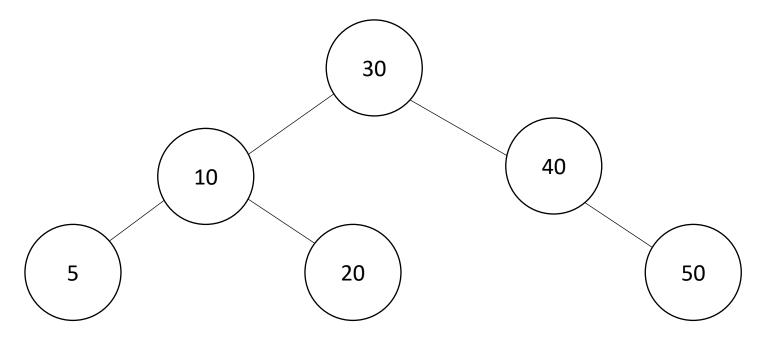




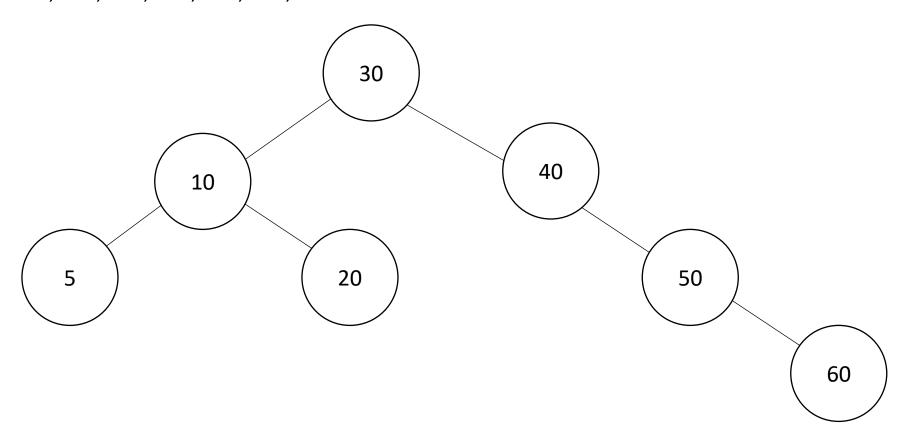


b. Insertar: 5, 10, 20, 30, 40, 50, 60





b. Insertar: 5, 10, 20, 30, 40, 50, 60



b. Insertar: 5, 10, 20, 30, 40, 50, 60

