



Algoritmos y programación II (75.41 & 95.15)

Curso Mariano Méndez





Ideado por Adelson-Velskii y Landis



Tipo de ABB auto-balanceado



Su orden de complejidad se mantiene en O(log(n))



Factor de balanceo





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Tipo de ABB auto-balanceado



Su orden de complejidad se mantiene en O(log(n))



Factor de balanceo



Atributo que se le agrega a cada nodo



Representa la diferencia de alturas entre los árboles izquierdo y derecho

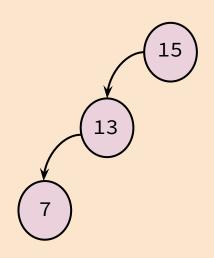


Valores permitidos: -1, 0, 1.

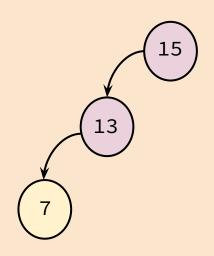




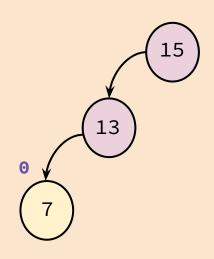






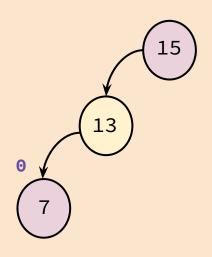




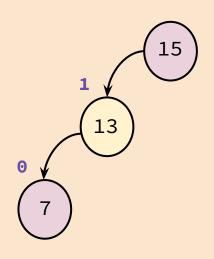






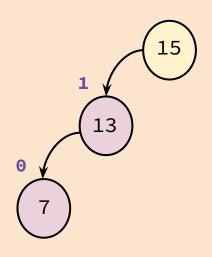




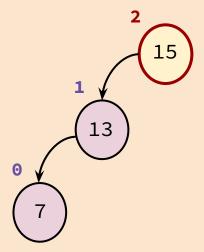


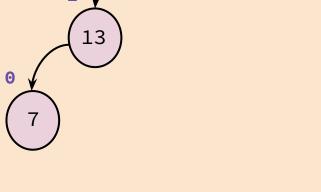








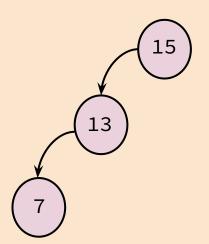




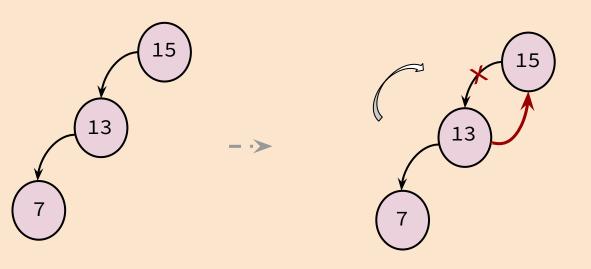




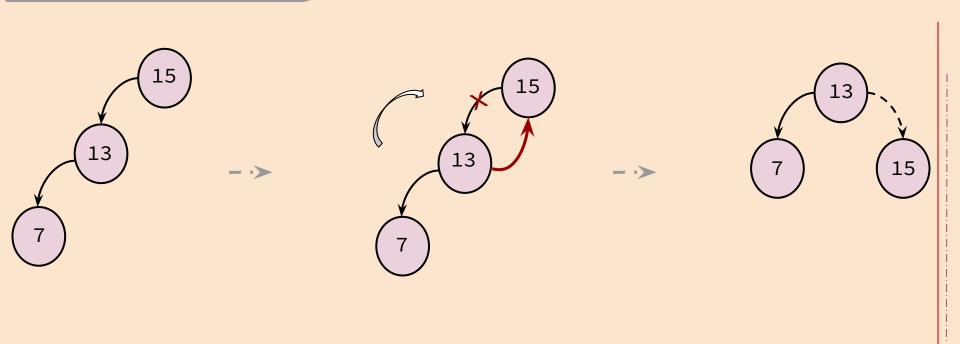




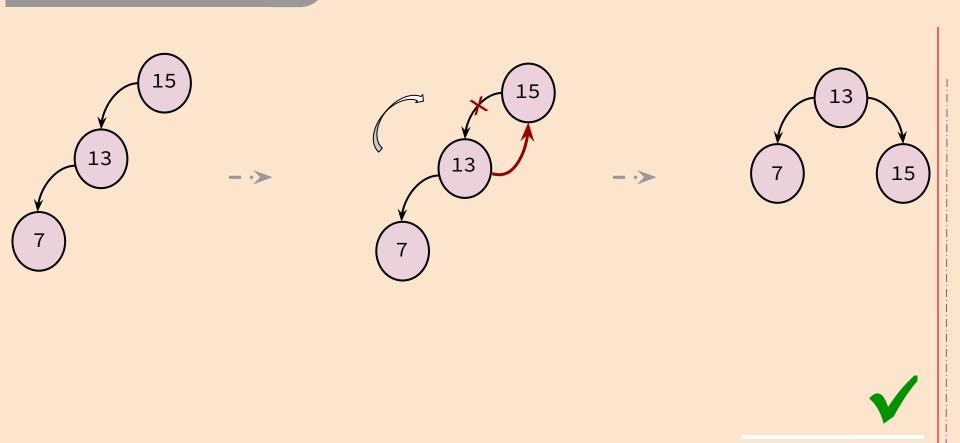






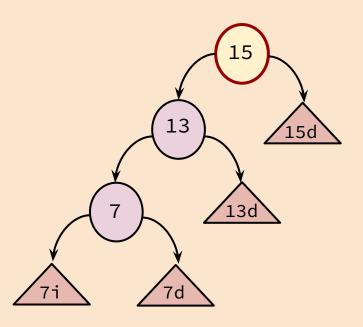






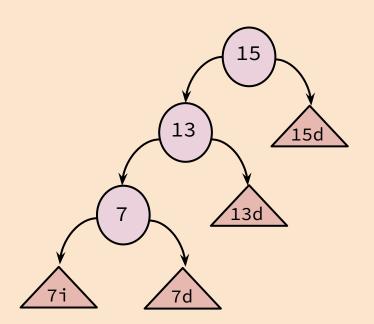


Y si los nodos tienen hijos??

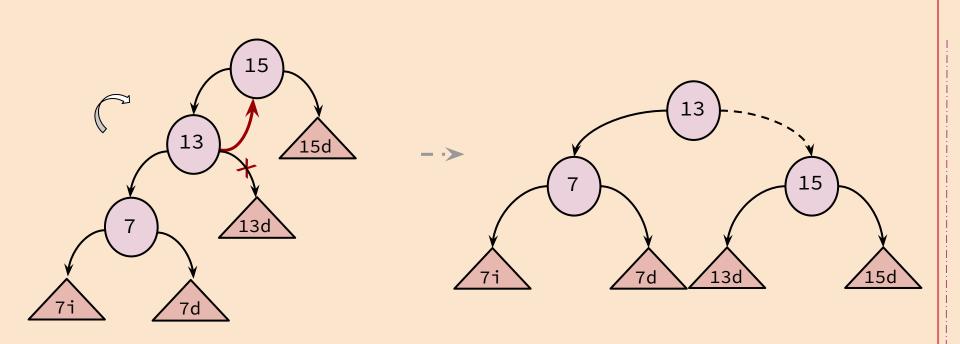


i = subárbol izquierdo
d = subárbol derecho

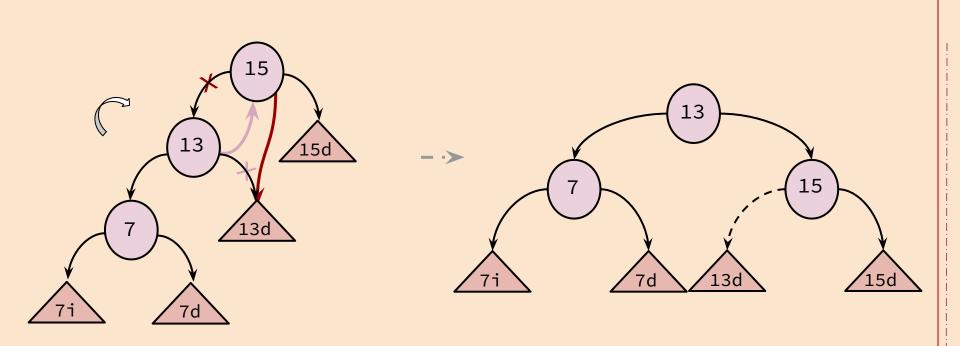




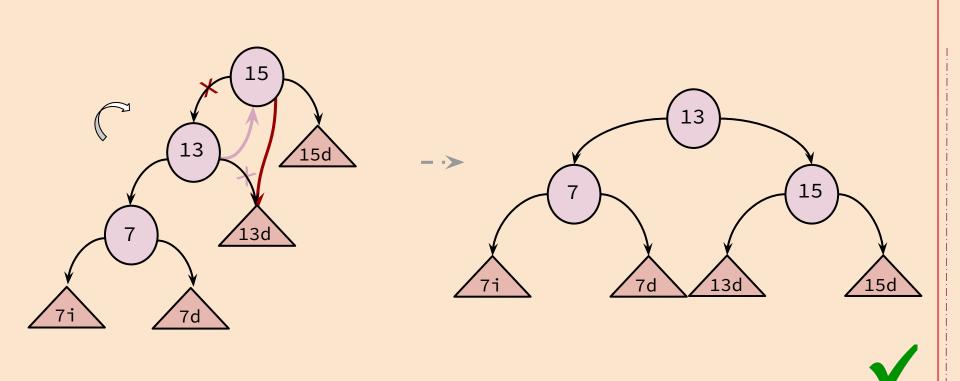




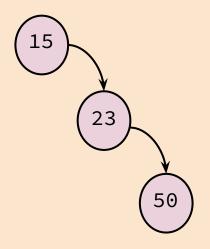




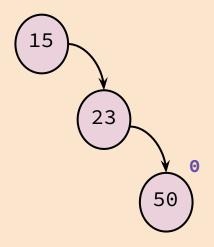




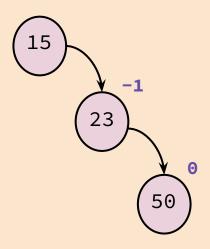




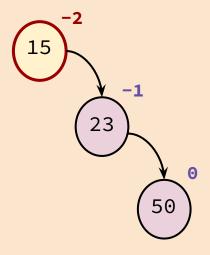




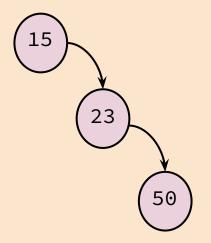




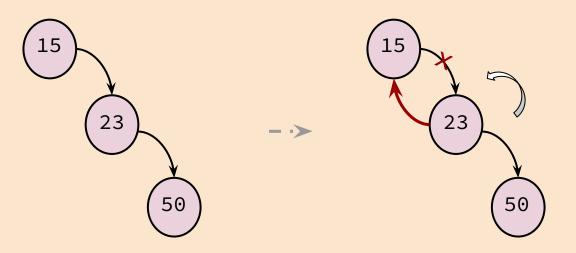




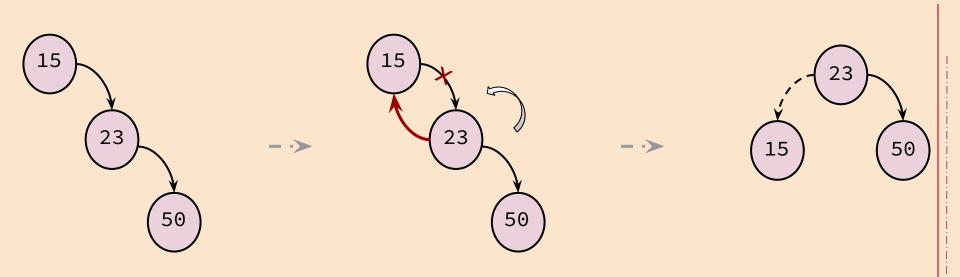




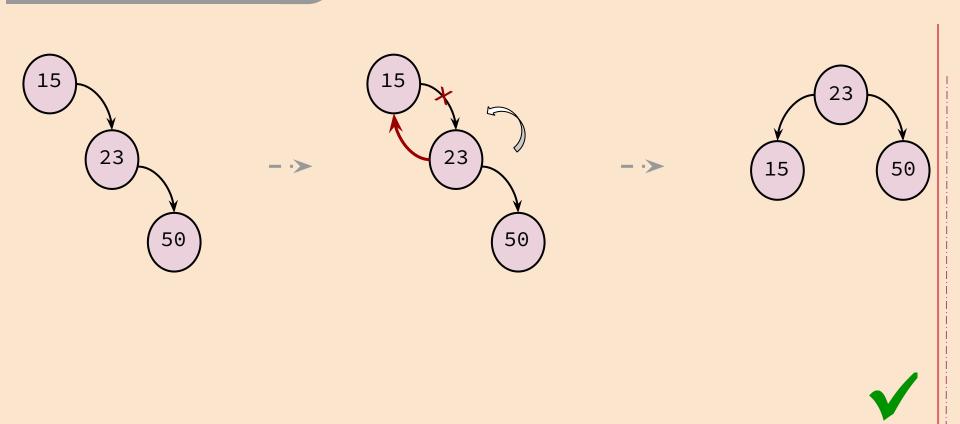






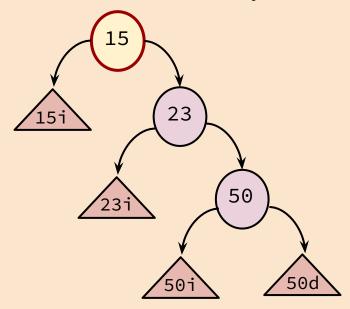






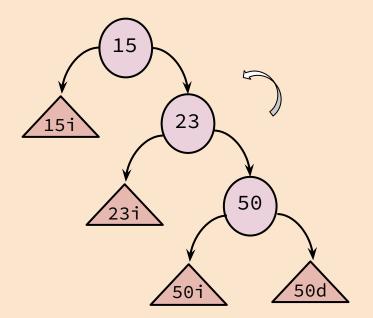


Y si los nodos tienen hijos??

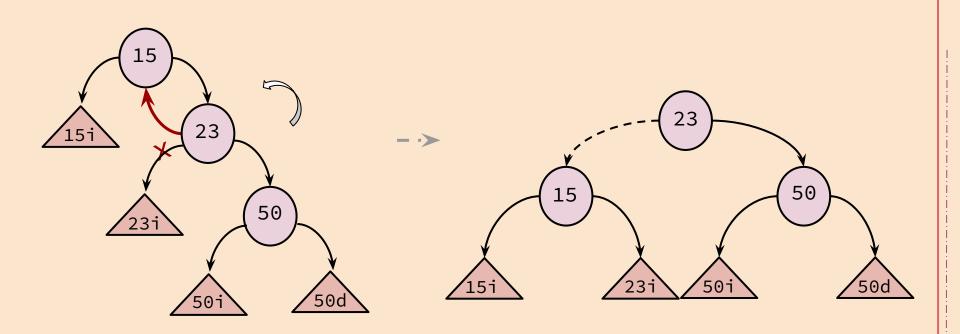


i = subárbol izquierdo
d = subárbol derecho

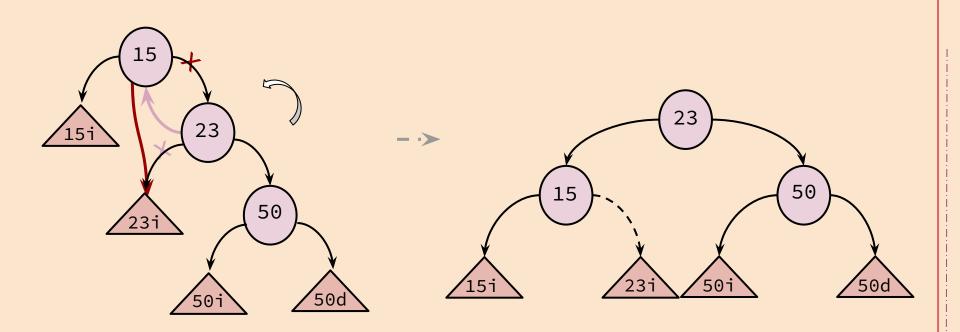




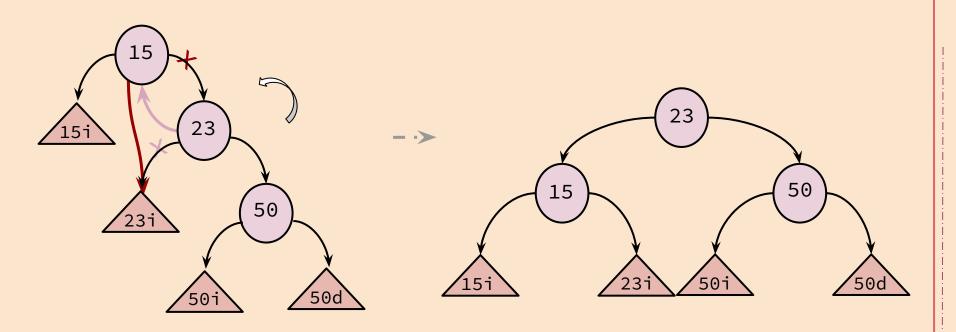




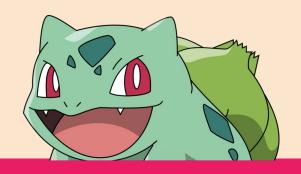








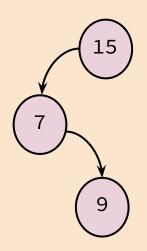




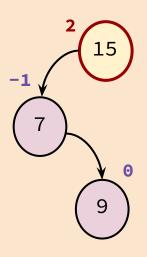
Rotación a izquierda + rotación a derecha

Rotación a izquierda + rotación a derecha





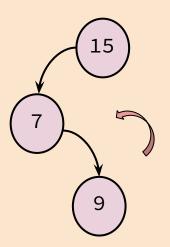




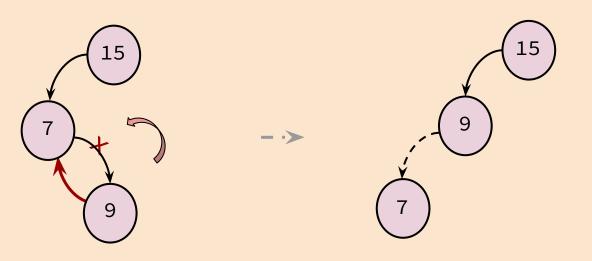
Factor de balanceo: altura izquierda - altura derecha



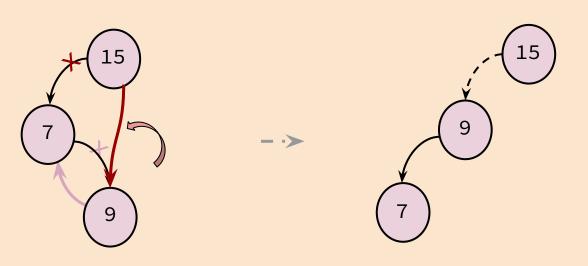




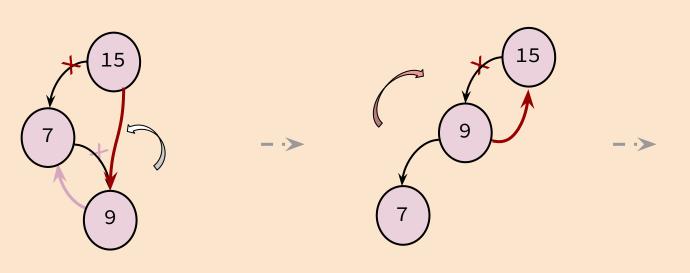


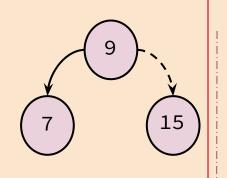




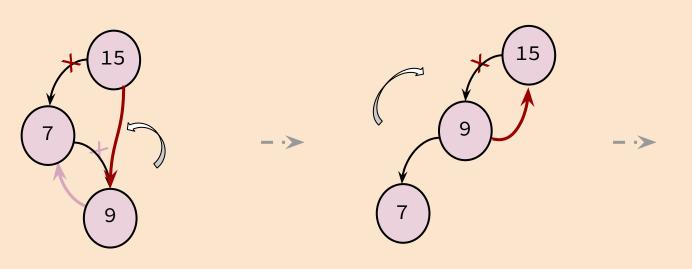


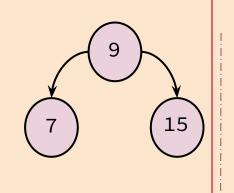








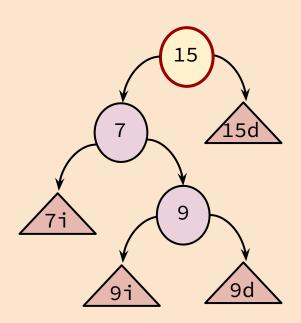






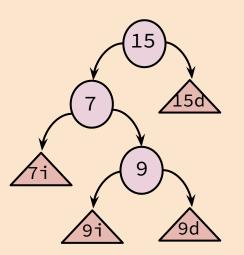


Con hijos:

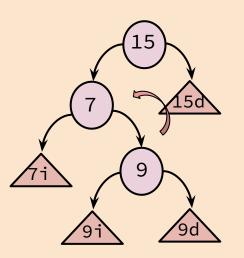


i = subárbol izquierdo
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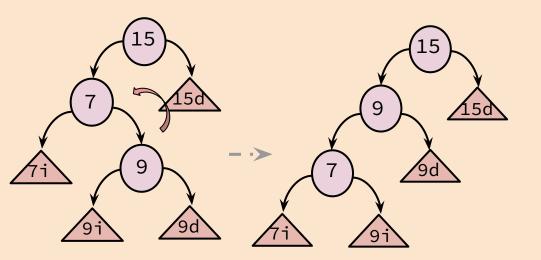




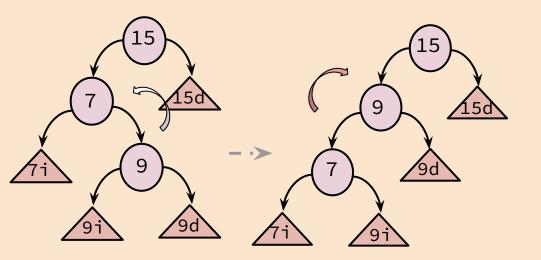




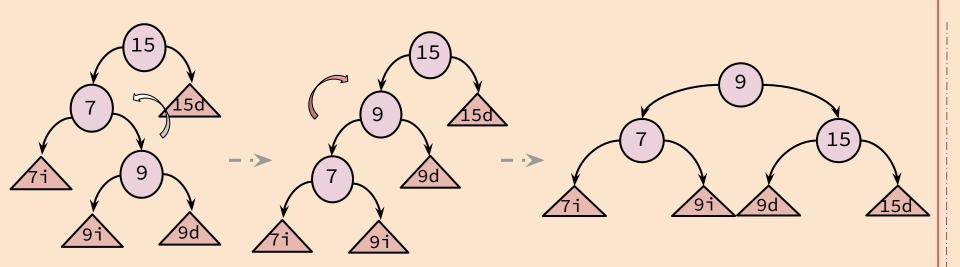




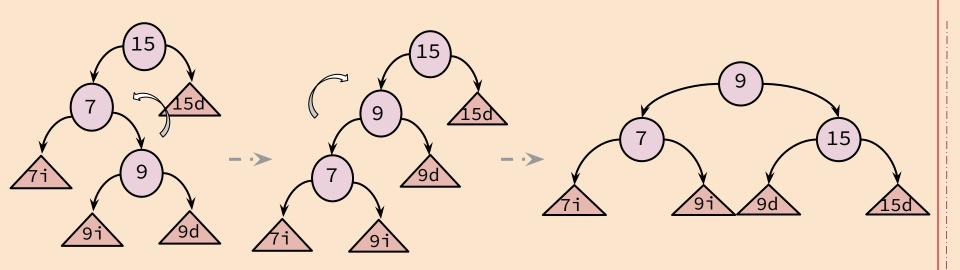






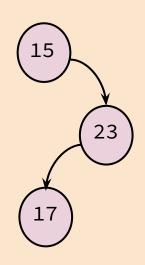






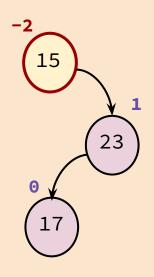






Factor de balanceo: altura izquierda - altura derecha

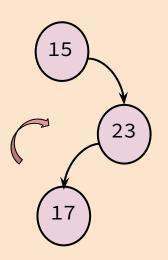




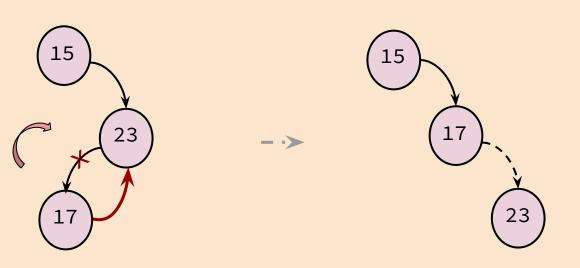
Factor de balanceo: altura izquierda - altura derecha



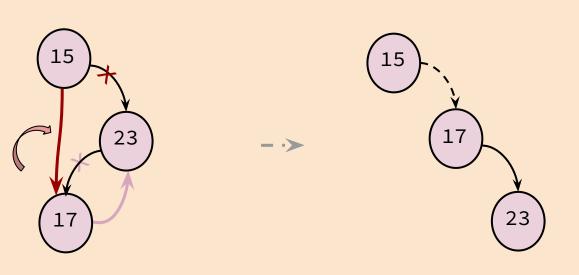




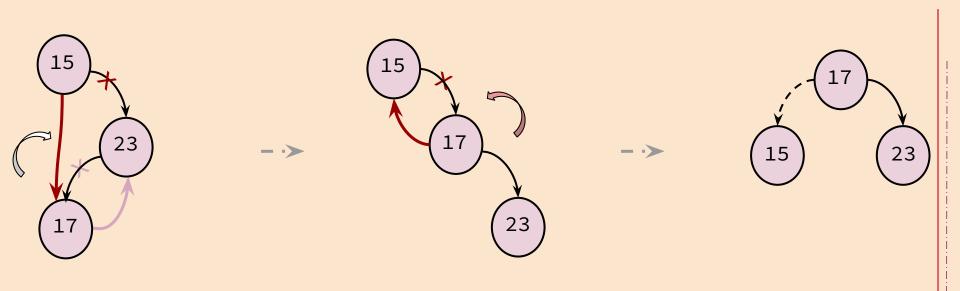




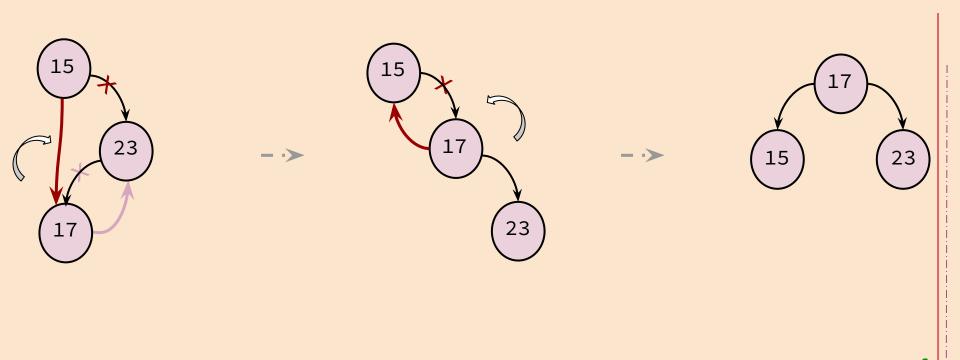








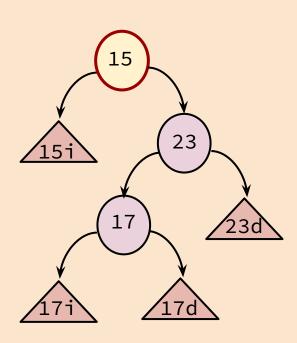






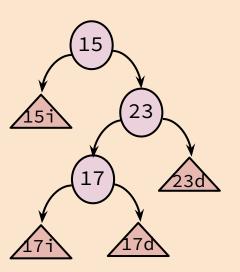


Con hijos:

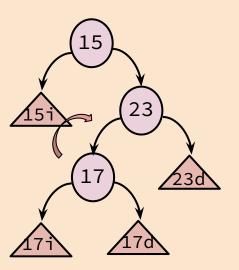


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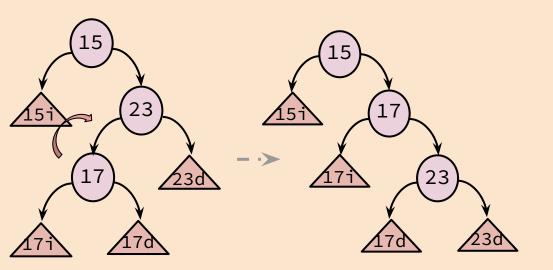




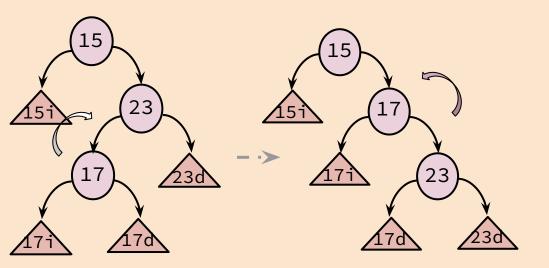




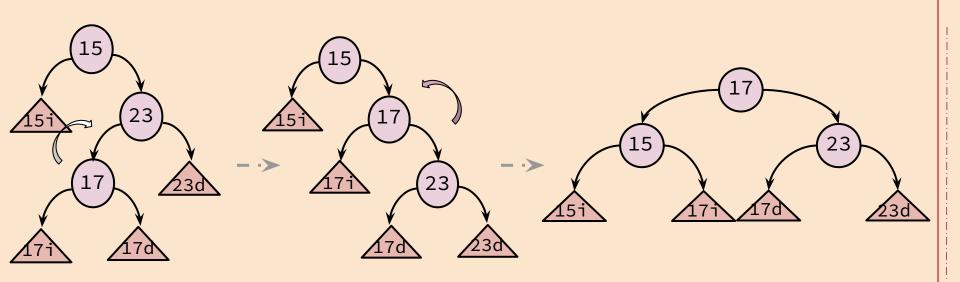




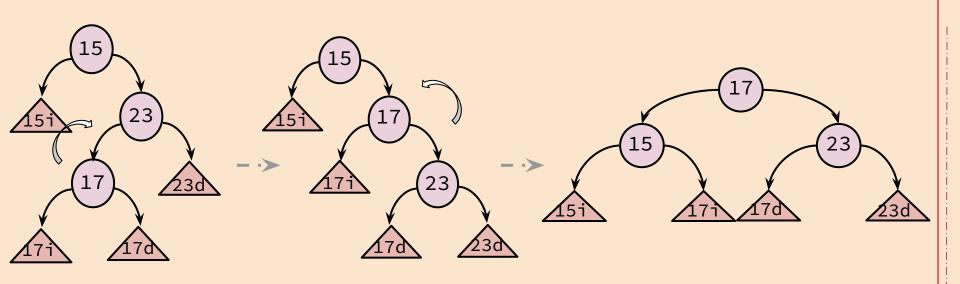








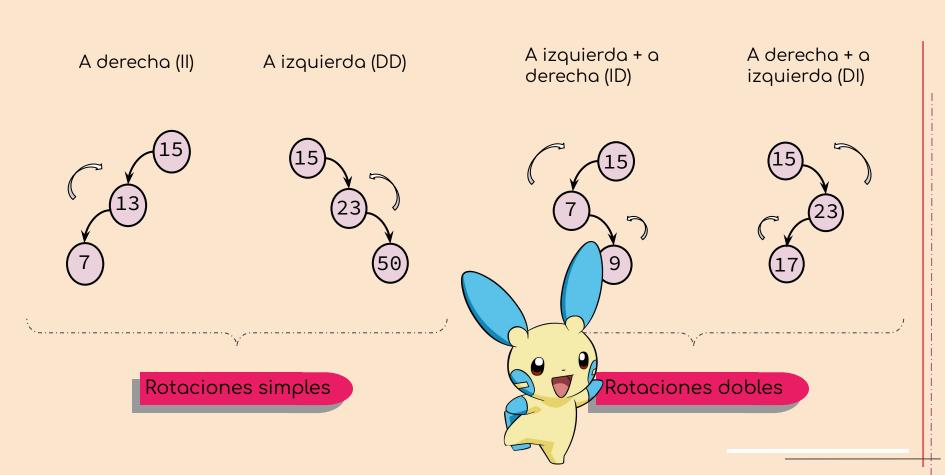






Resumen





Preguntas?

