



مهم جدأ

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20٪ مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

يجب عليك مشاهدة فيديو الدرس كاملا

لاتنسى عمل لايك ومشاركة القناة لتعم الفائدة للجميع لا تنسونا من دعائكم

ProgrammingAdvices.com

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Type 3: LL - Left-Right Rotation (Double Rotations)

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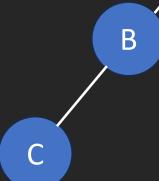


Right Rotation (RR)

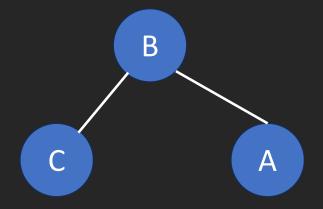


Right Rotation

- The left child of the node becomes the new root of the subtree.
- The original root node becomes the right child of the new root.



Used when a node becomes too left-heavy (balance factor of +2), particularly when its left child has a balance factor of +1 or 0

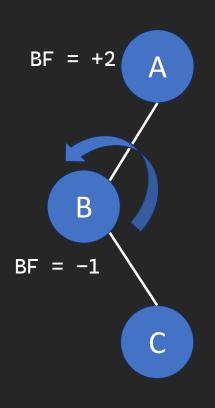


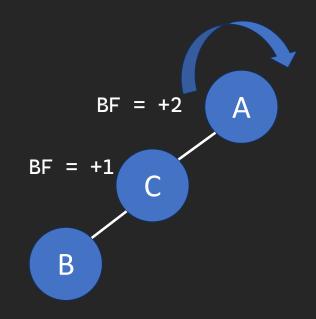


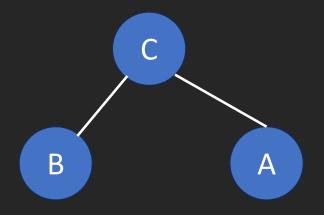
Left-Right Rotation (LR)

Step 1 - Left Rotation for the Problem childe

Step 2 - Right Rotation for the Parent







Used when a node becomes too left-heavy (balance factor of +2), particularly when its left child has a balance factor of -1 (Opposite the parent)

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