Notes on AVL

* Balance factors can be kept up-to-date by knowing the previous balance factors and the change in height
* After this insertion it is necessary to check each of the node's ancestors for consistency with the invariants of AVL trees: this is called "retracing"

<https://www.youtube.com/watch?v=AWIJwNf0ZQE> heights of node

<https://www.youtube.com/watch?v=qIdVVH1tKM4> checking if a tree is balanced or not