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AVL tree

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Entry type Definition Classification msc 05C05 An AVL tree is a balanced binary search tree where the height of the two subtrees (children) of a node differs by at most one. Look-up, insertion, and deletion are $O(\ln n)$, where n is the number of nodes in the tree.

The structure is named for the inventors, Adelson-Velskii and Landis (1962).