I-APG1, Lektion 7
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Balanced Binary Search Trees

- Ch. 16:
  - Oplæg: 16.1
  - Opgave: 1, 5

Balanced Binary Search Trees

- height is O(log n), where n is the number of elements in the tree
- AVL (Adelson-Velsky and Landis) trees
- red-black trees
- get, put, and remove take O(log n) time

AVL Tree

- binary tree
- for every node x, define its balance factor

  balance factor of x = height of left subtree of x
  - height of right subtree of x
- balance factor of every node x is -1, 0, or 1