







This assignment **closed** December 15, 2024 at 23:15.

Self-Balancing Trees - AVL Tree

As you have learned during the lectures and exercises, trees are important data structures which are used for many different applications. One problem of trees is, however, that they might degenerate and thus lose many of their advantages. A data structure that prevents this is the AVL tree.

AVL-Tree

- 1. Explain, what an AVL tree is! Why is it necessary to balance trees?
- 2. Explain the algorithm for inserting node into an AVL tree using the sequence 14, 17, 19, 7, 5, 10, 18.
- 3. Show how the tree looks like after every important step.

Be prepared to demonstrate the algorithm on another sequence in class!





Template files

Get all files in an archive templates.zip or templates.tgz.



AVLTree.md

