

AVL TREES : Guided Exercises

1. Provide the insertion algorithm for an AVL tree using a stack with the utilization of a Height field at each node, indicating the height of the subtree rooted at that node.
2. Provide the insertion algorithm for an AVL tree using a stack with the utilization of two bits expressing the balance of a node.
3. Provide the insertion algorithm for an AVL tree using the Parent operation instead of a stack with the utilization of a Balance field equal to 0, 1, or -1.
4. Provide the deletion algorithm for an AVL tree using the Parent operation instead of a stack with the utilization of a "balance" field equal to 0, 1, or -1.
5. Provide the deletion algorithm for an AVL tree using a stack with the utilization of a Balance field equal to 0, 1, or -1.
6. Provide the deletion algorithm for an AVL tree using a stack with the utilization of a Height field at each node, indicating the height of the subtree rooted at that node.
7. Provide the deletion algorithm for an AVL tree using a stack with the utilization of two bits expressing the balance of a node.
8. Provide the algorithm to construct a right-threaded AVL tree.