Assignment 10: AVL trees

- 1. Given a BST, find if it is an AVL tree.
- 2. Given a graph, find if it is an AVL tree.
- 3. Given a BST, type of rotation (left/right) and node k, perform and verify the rotation at node k. Print the nodes through in-order traversal.
- 4. Given *n* integers, create an AVL tree and print the sequence of nodes traversed through pre-order and post-order methods.
- 5. Given n integers, create an AVL tree. Delete k nodes in the order given by the user and print the sequence of nodes of the final tree traversed through pre-order and post-order methods.
- 6. (OPTIONAL) Given a BST along with color (red/black), find if it is an RB tree.