CSE 332: Data Structures and Parallelism

Section 4: Balanced Trees

0. The *A*BC's of *A*VL Trees

What are the constraints on the data types you can store in an AVL tree? When is an AVL tree preferred over another dictionary implementation, such as a HashMap?

1. Let's Plant an AVL Tree.

Insert 10, 4, 5, 8, 9, 6, 11, 3, 2, 1, 14 into an initially empty AVL Tree.

2. MinVL Trees

Draw an AVL tree of height 4 that contains the minimum possible number of nodes.

3. AVL Trees

Insert 6, 5, 4, 3, 2, 1, 10, 9, 8, 7 into an initially empty AVL Tree.