Exercise 1: Binary Search Trees I

Consider the following binary search tree

1. Give all sequences of \texttt{insert(key)} operations that generate the tree.

2. Draw the tree after the following sequence of operations: \texttt{insert(6)}, \texttt{insert(5)}, \texttt{remove(3)}.

Exercise 2: Binary Search Trees II

Write an algorithm that takes as input a node of a binary search tree and outputs its successor in the tree (i.e., the node with the next larger key). What is the runtime of the algorithm?