CMSC 341

Splay Tree Diagrams
Bottom-Up Splaying

These diagrams show the rotations necessary for “Bottom-Up” splaying. Note that these diagrams illustrate the rotations necessary whenever the node to be splayed is a left child. Symmetric rotations are performed when the node is a right child.
Bottom-Up Single Rotation
Bottom-Up Zig-Zig
Bottom-Up Zig-Zag
Top-Down Splaying

These diagrams illustrate the reorganization of the splay tree as we follow the left-link from a node. Note that symmetric reorganization of the tree occurs when the right-link is followed.
Top-Down Zig
Top-Down Zig-Zig
Top-Down Zig-Zag