

DS Final Cheat Sheet by adman via cheatography.com/207934/cs/45246/

Splay Trees

Top Down Splay:

function Splay(node x, root r): if x == null orr == null: return r while x is not the root: if x is a child of the root: # Zig case if x is the left child: perform right rotation on the root else: perform left rotation on the root else: parent = parent(x) grandparent = parent(parent(x)) if x and parent are both left children (or both right children): # Zig-Zig case if x is a left child: perform right rotation on grandparent perform right rotation on parent else: perform left rotation on grandparent perform left rotation on parent else: # Zig-Zag case if x is a left child: perform right rotation on parent perform left rotation on grandparent else: perform left rotation on parent perform right rotation on grandparent return x # x is now the root

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By adman

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