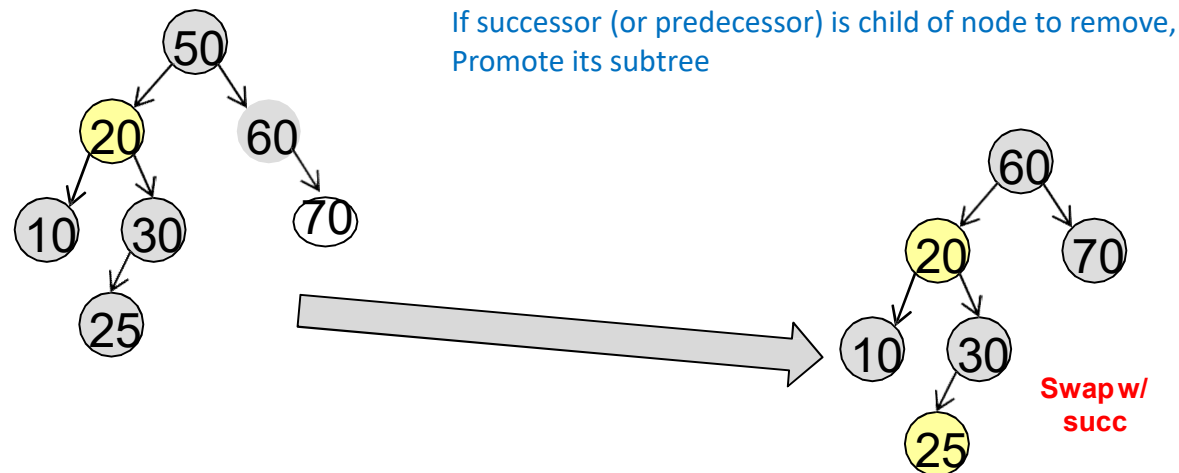


# BST Removal

- To remove a value from a BST...
  - First find the node
  - If the node non-leaf node with two children, swap the value with its in-order successor or predecessor and then remove the value
  - A predecessor is either a leaf or has no right child
  - A successor is either leaf or has no left child

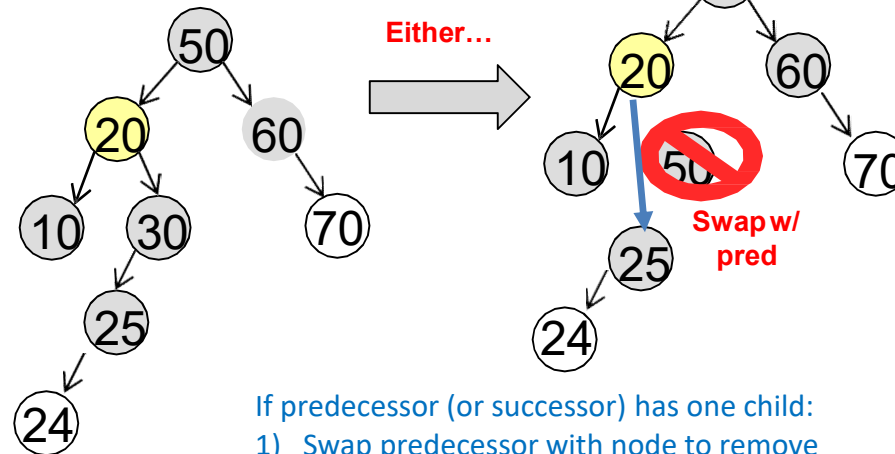
**Remove 50**



# BST Removal

- To remove a value from a BST...
  - First find the node
  - If the node non-leaf node with two children, swap the value with its in-order successor or predecessor and then remove the value
  - A predecessor node is either a leaf or has no right child
  - A successor is either leaf or has no left child

Remove 50



If predecessor (or successor) has one child:

- 1) Swap predecessor with node to remove
- 2) Remove the predecessor node and promote its only child (and its subtree)