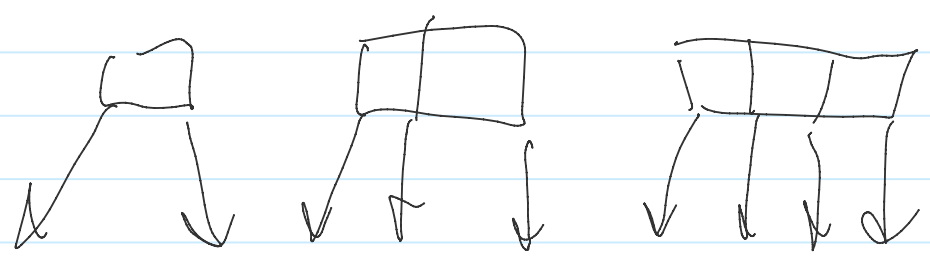
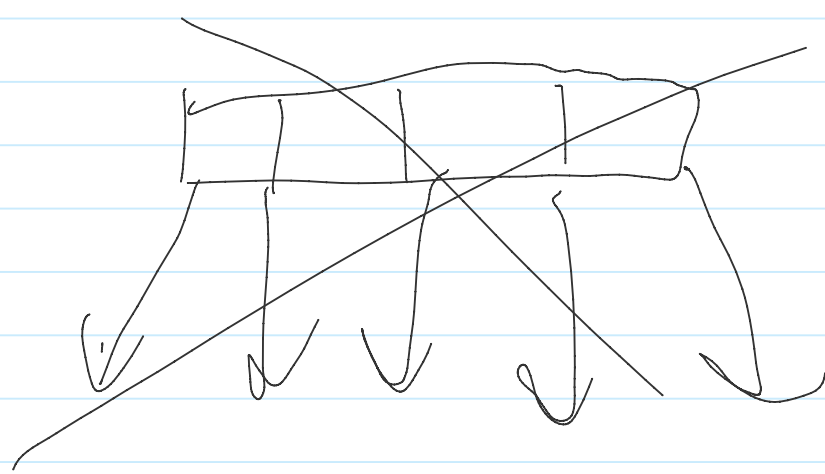


1/31 2-4 Tree Insertion

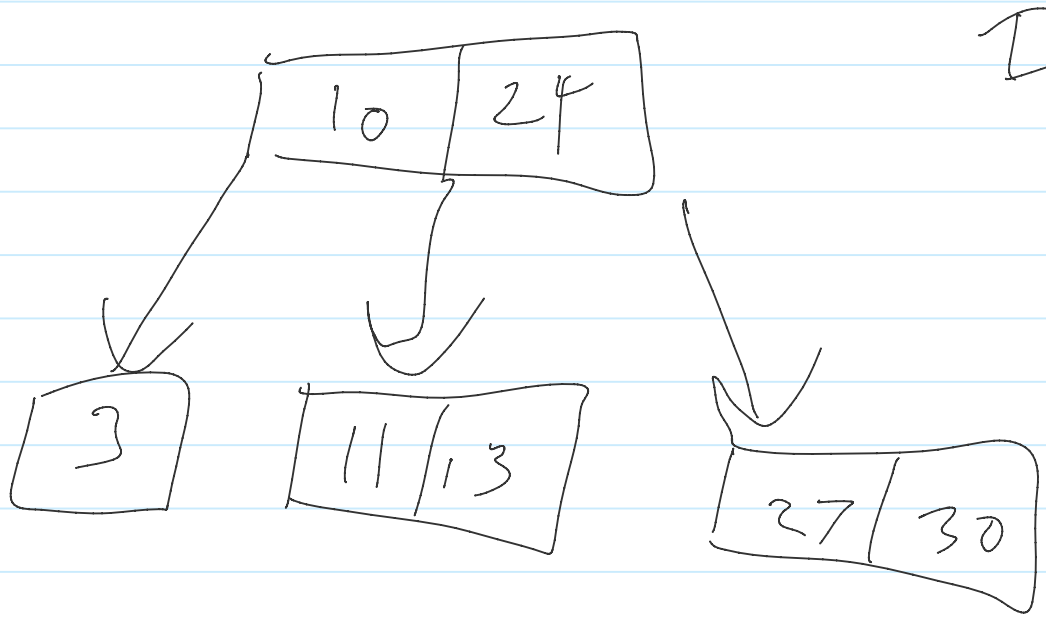
Wednesday, January 31, 2018 5:56 PM

BST with 3+ types of nodes

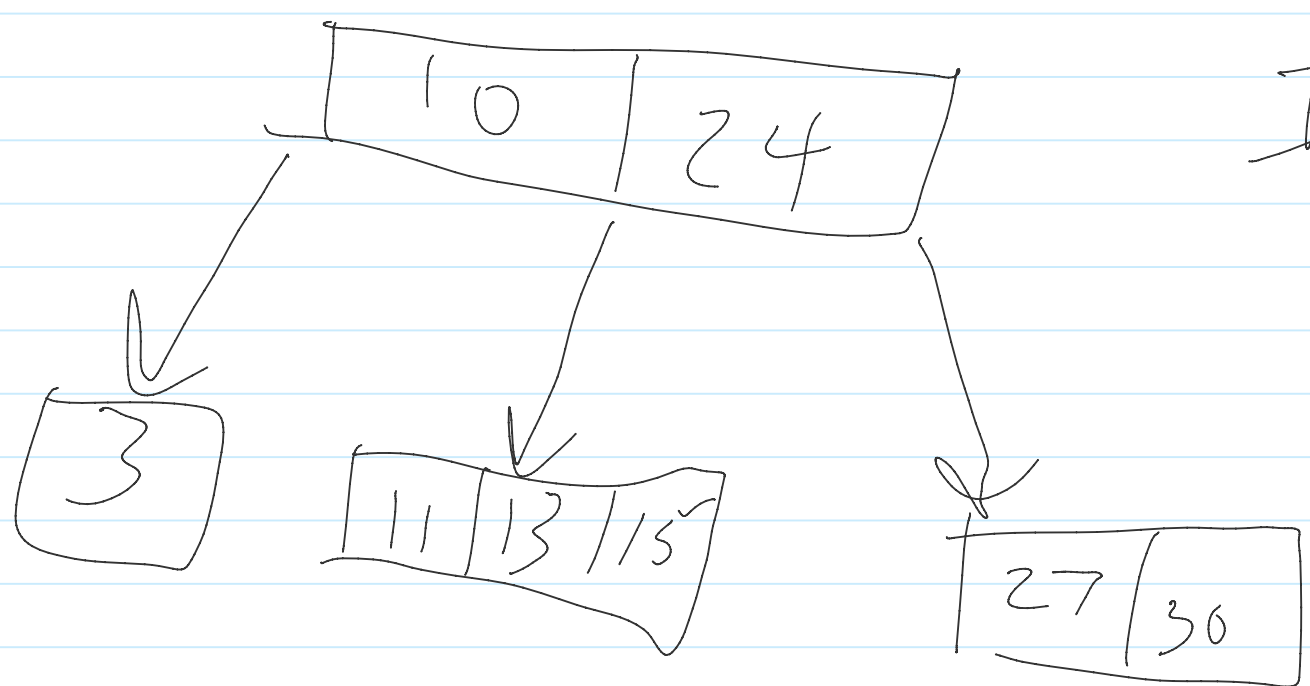


2 Node -
 2 children
 2 slots
 3 " "
 3 children
 3 slots
 4 " "
 4 children
 4 slots

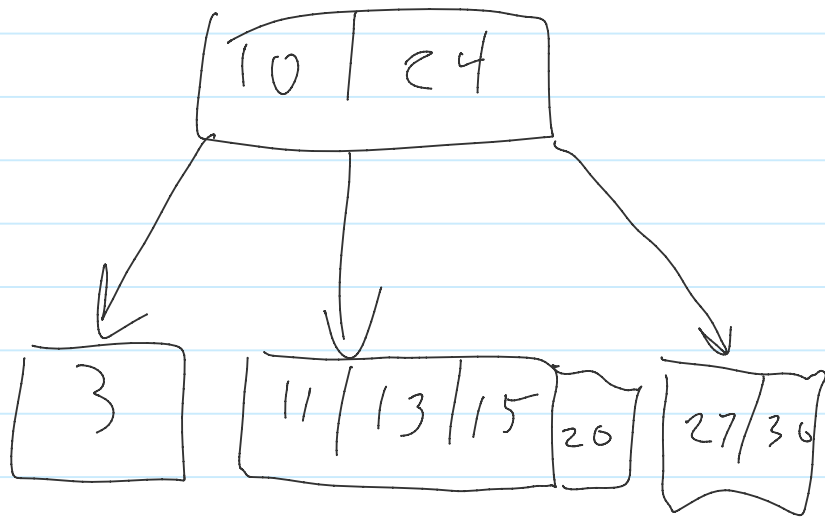
Not leaf node



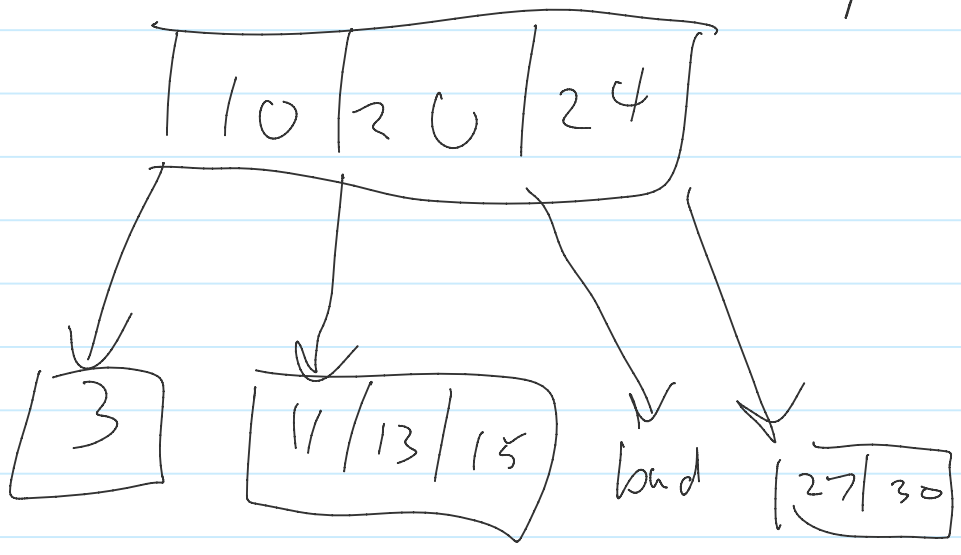
Insert 15



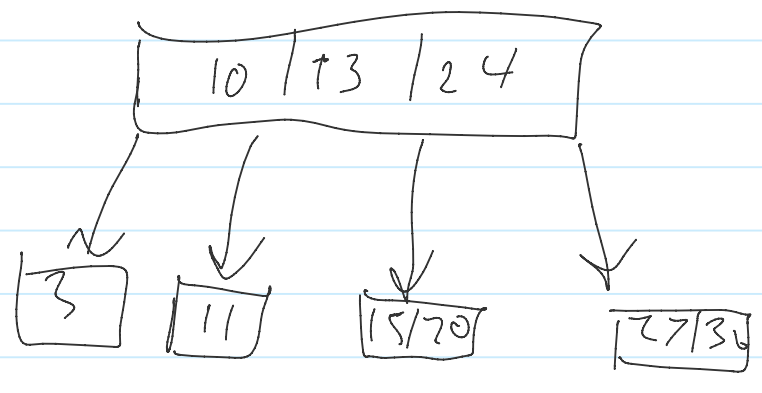
Insert 20



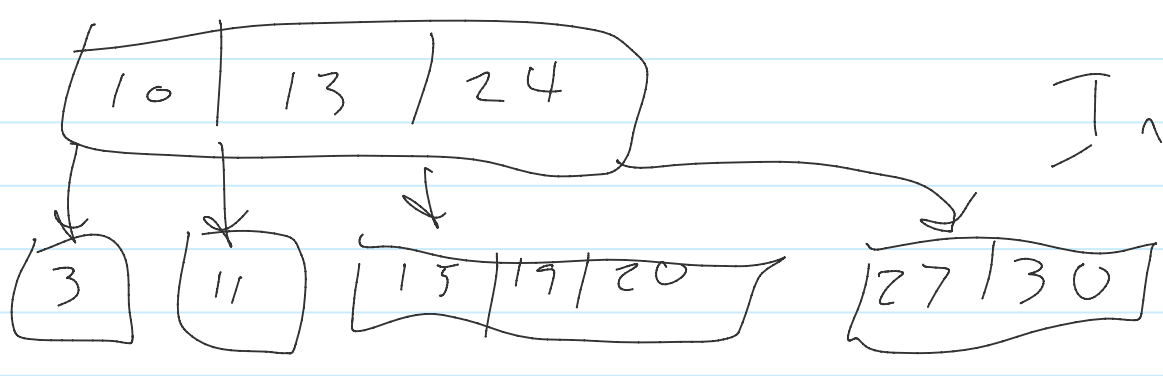
move 20 up



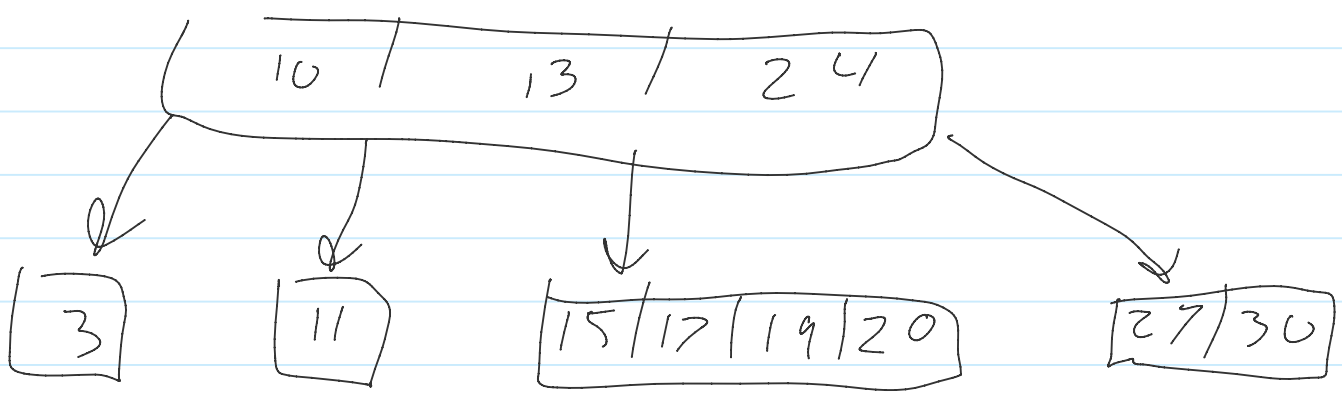
push up 13 instead



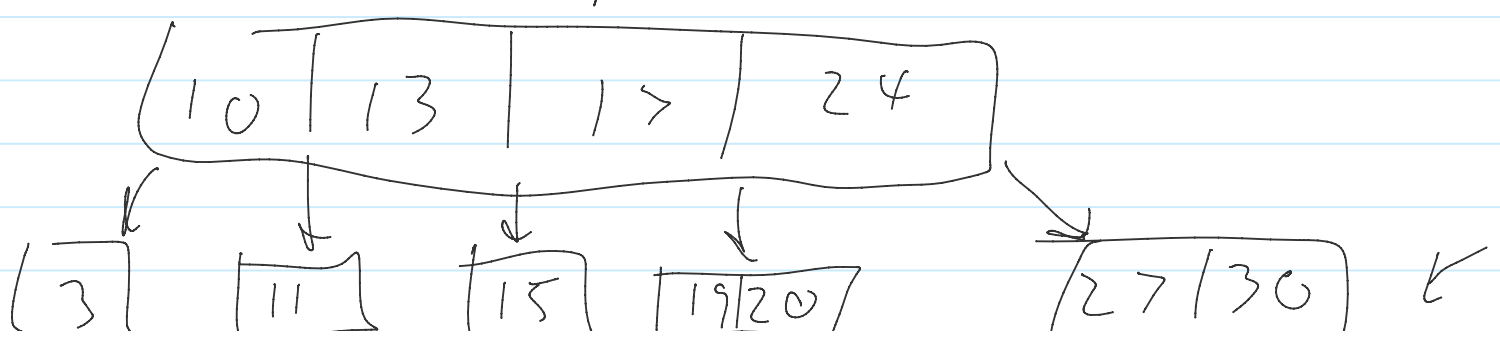
Insert 19



Insert 17

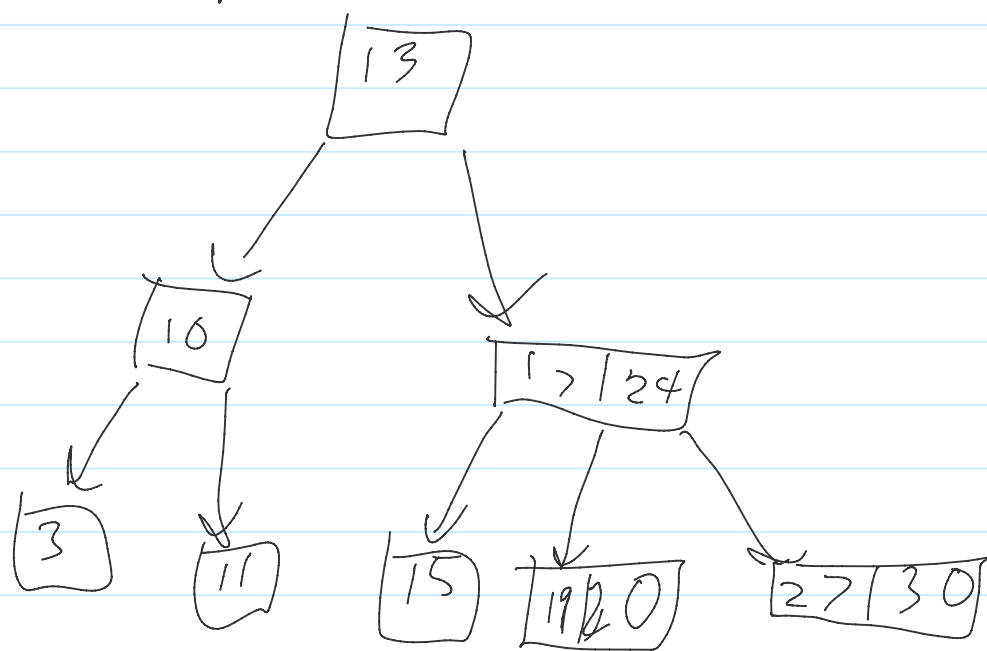


push up 17



3 11 15 19/20 27/30

push 13



If leaf node (or node) with inserted value has too many elements push up 2nd (or 3rd) element