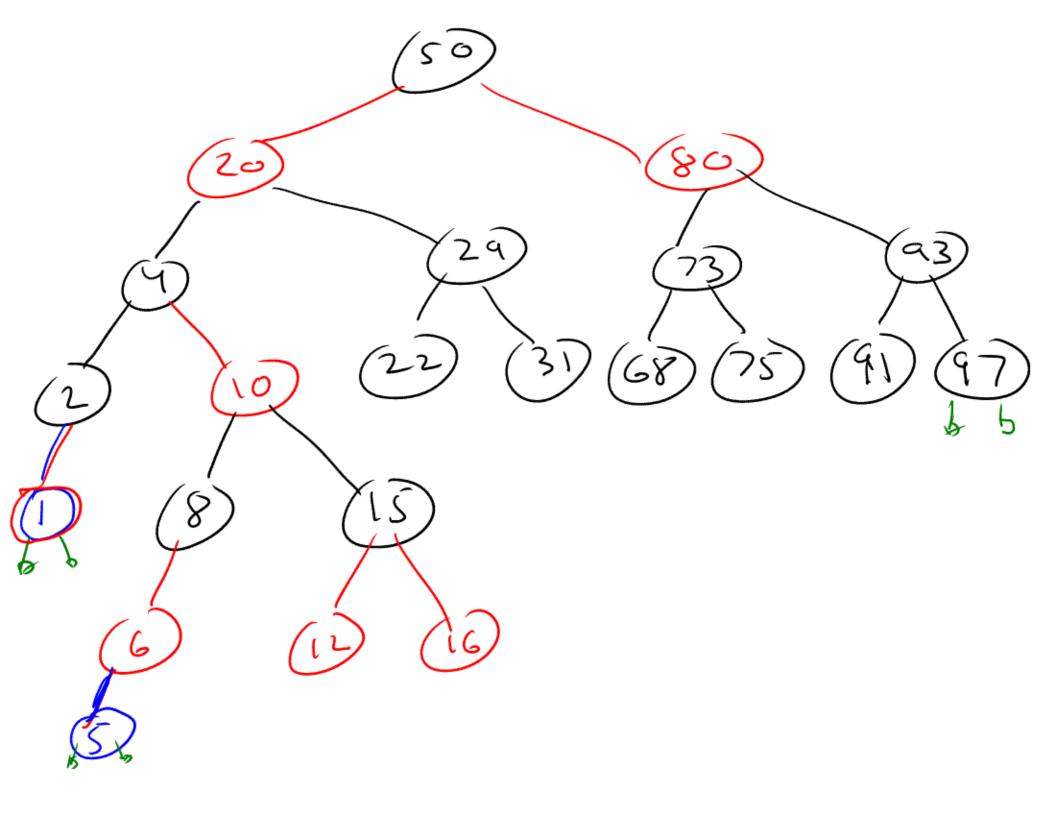


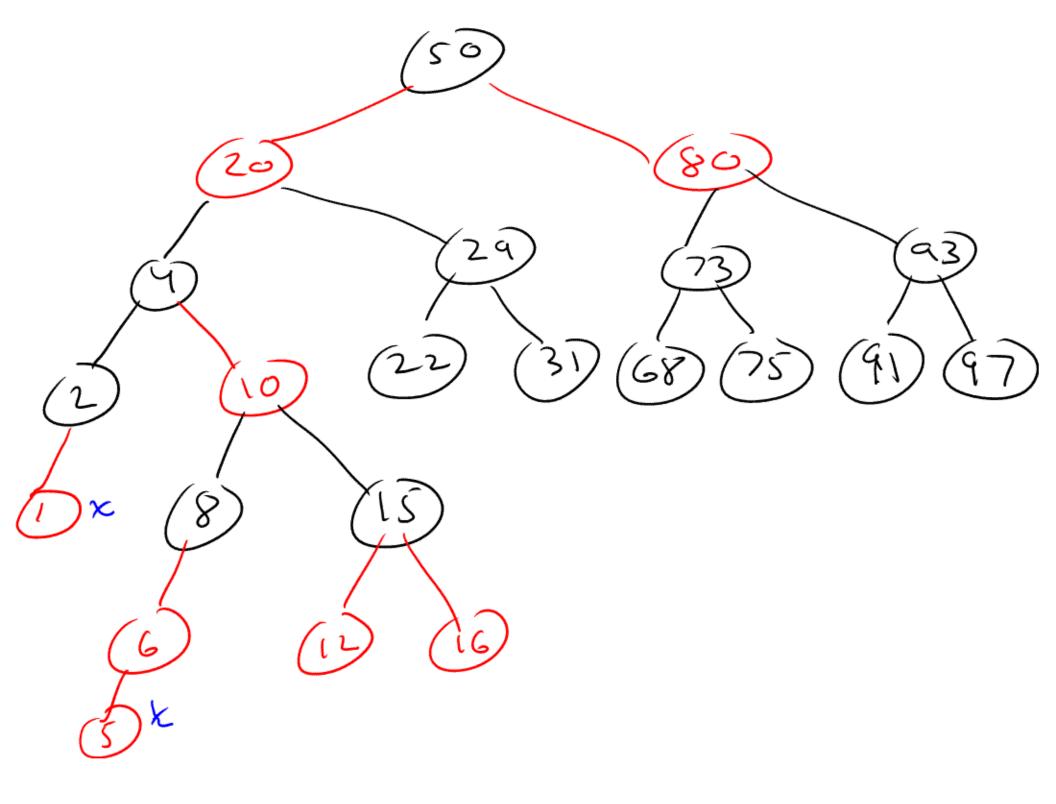
Insut (x) , resert of x - BST new mode a color 一955197 -> which color?? 9, f we make node black, always a crolden because blackheight of two paths are increased but for other parts, no s if we make node red, sometimes a problem when parent

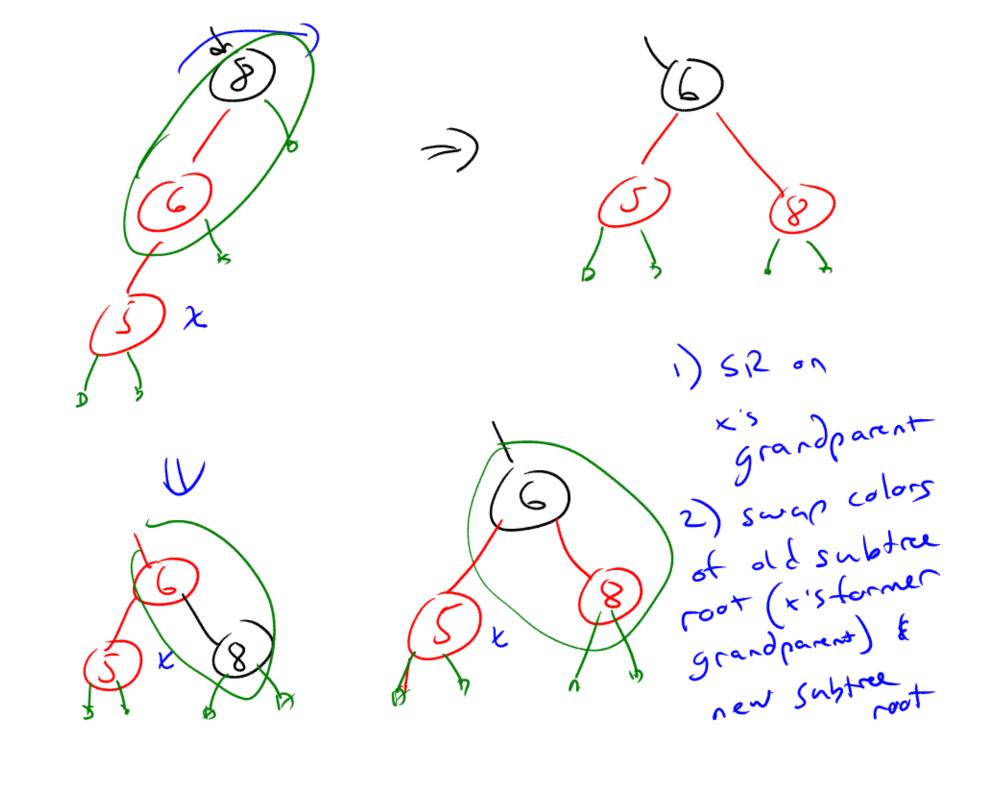


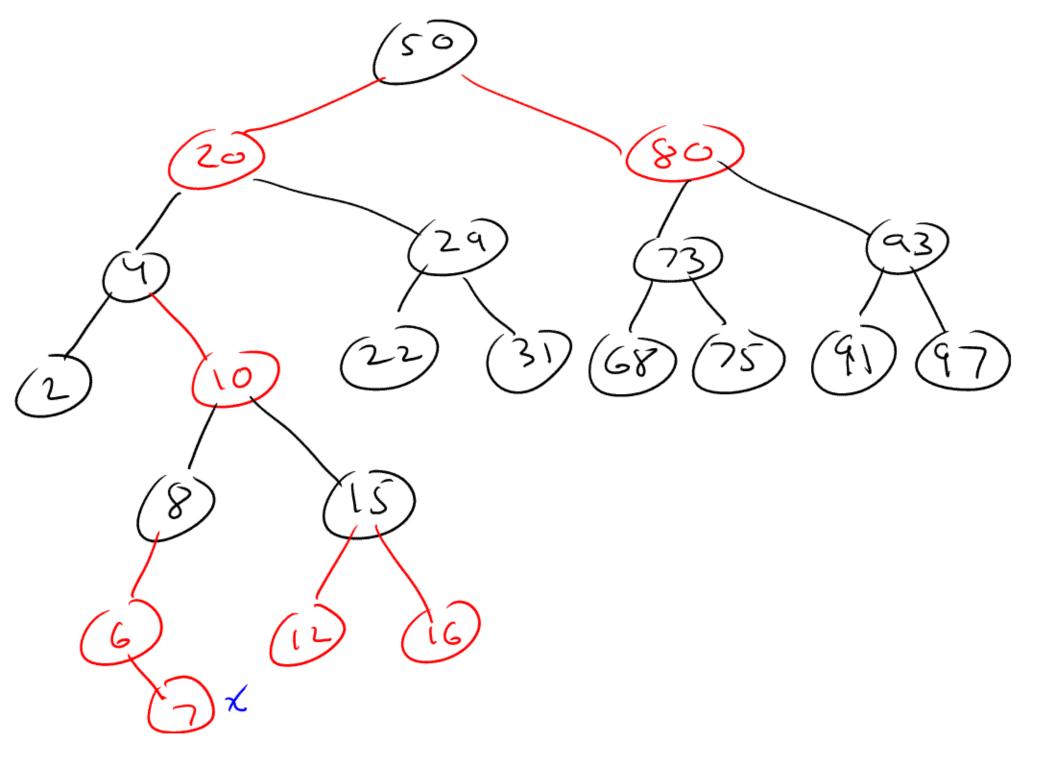
Inset (x) - BST mart of x, make new node red - label new node × f (x's parent is Slade) else // x's parent is red } fix problems in tree

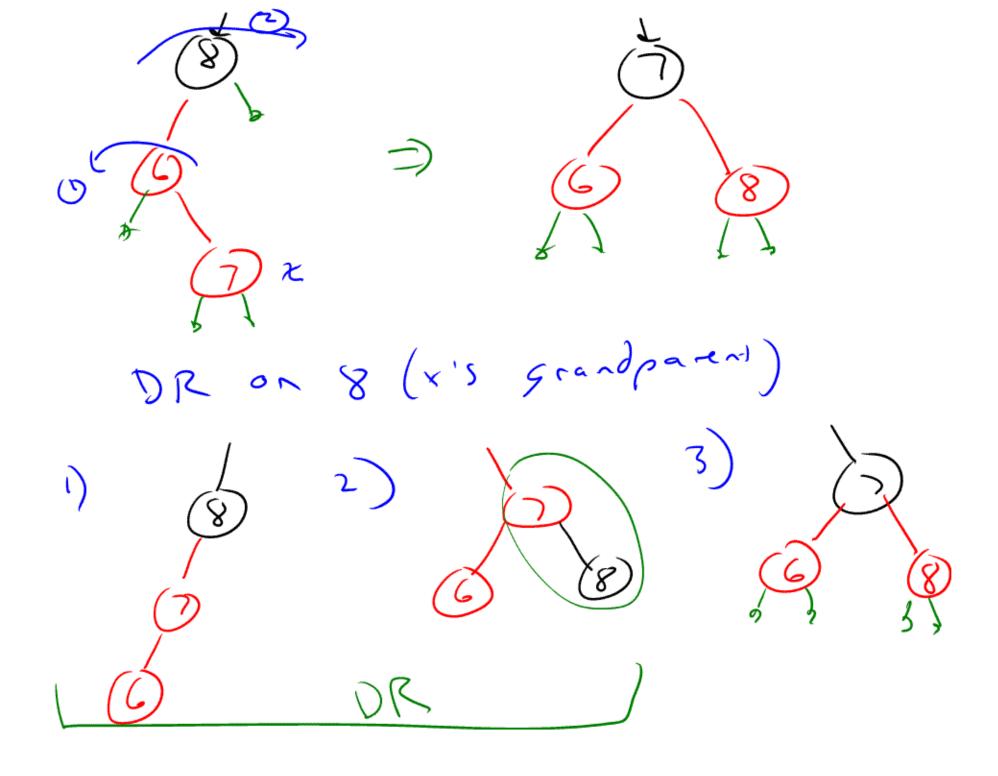
5

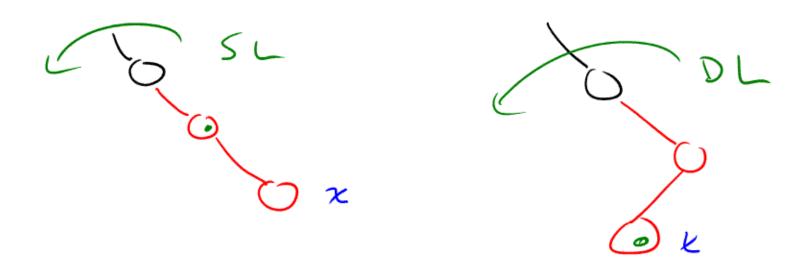
5



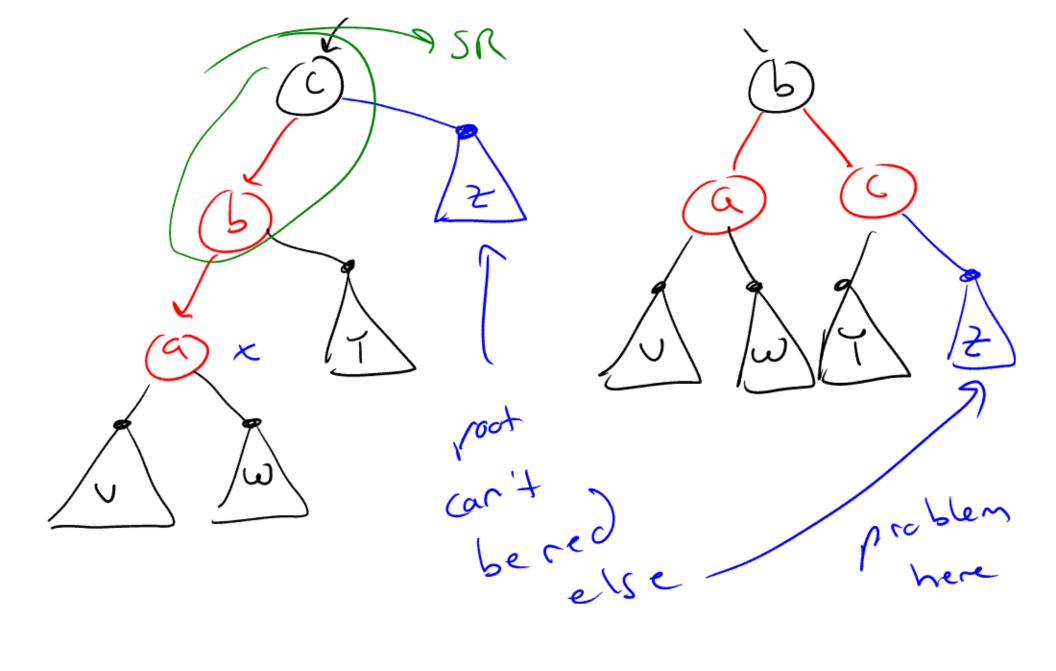




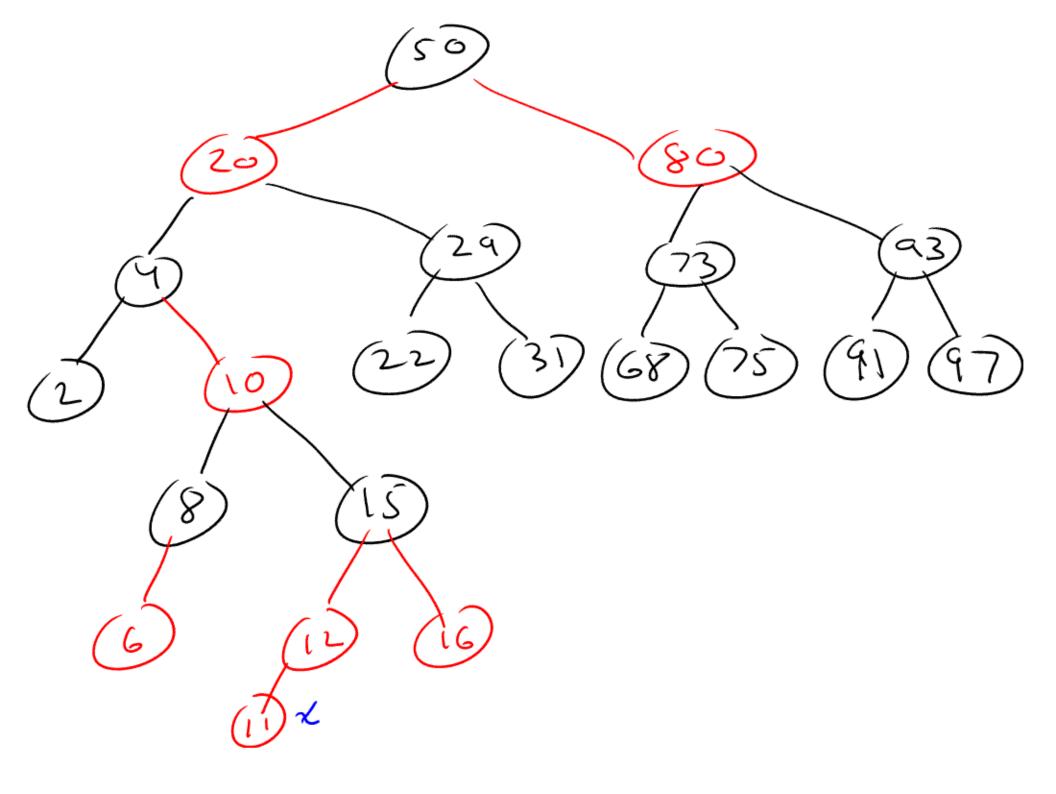


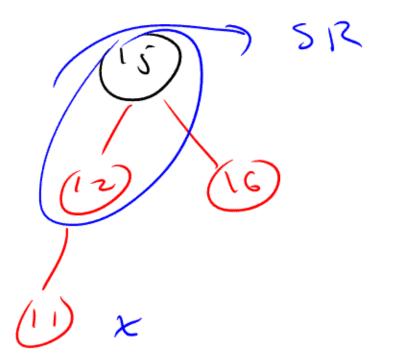


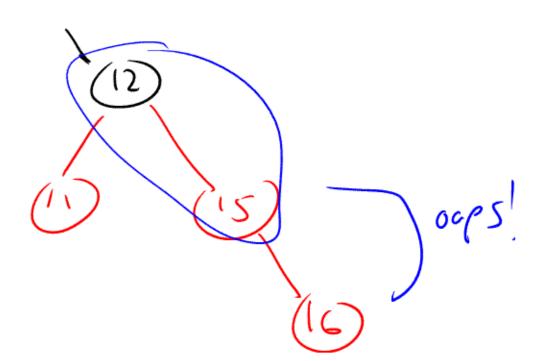
1) do a rotation (SR, DR, DL, SL)
on x's grandparent
2) x's grandparent 15 old root of
substree, swap , to color w/
that of new root of subtree

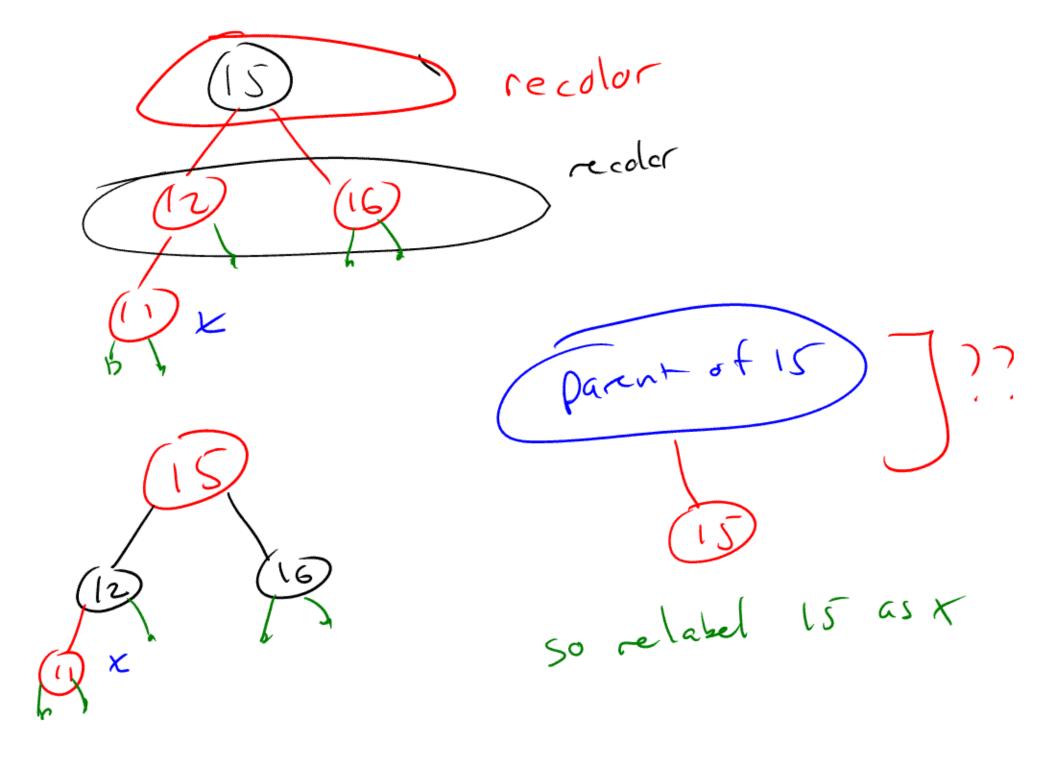


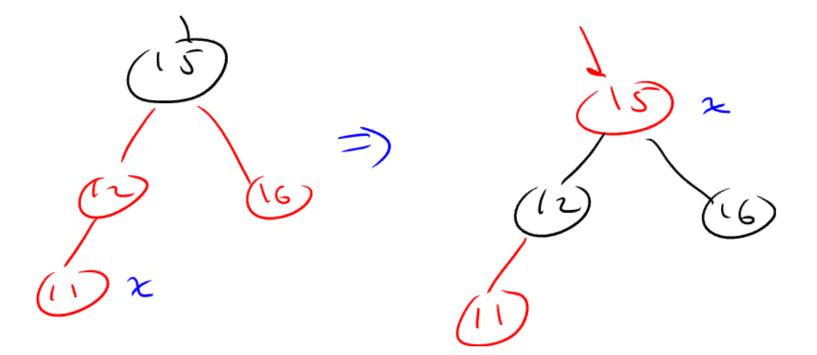
Incert (x) - 1851 insert et x, color new - label new node "x" f (z's parent is black) stop (x's parent's sibling is black) } robate, recolor 2 nodés, stop èlse /1 x's parent's sibling is red











Irsert (x) - BST insert of x, new rode is - laled reve node as x

while (x not root AND

while (x not root sparent is red) if (x's parent 's sib is black ortable; recolor 2 modes, stop root black;