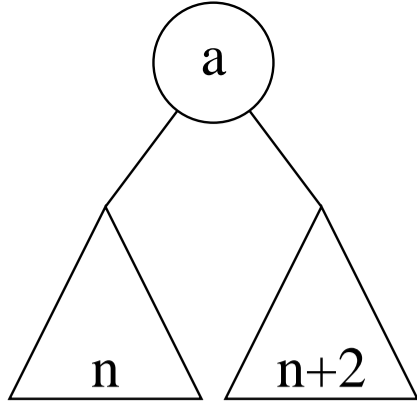
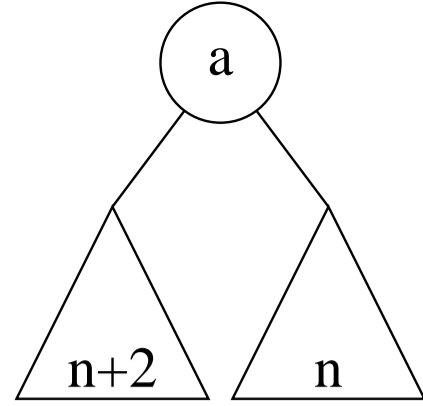


unbalanced AVL tree:

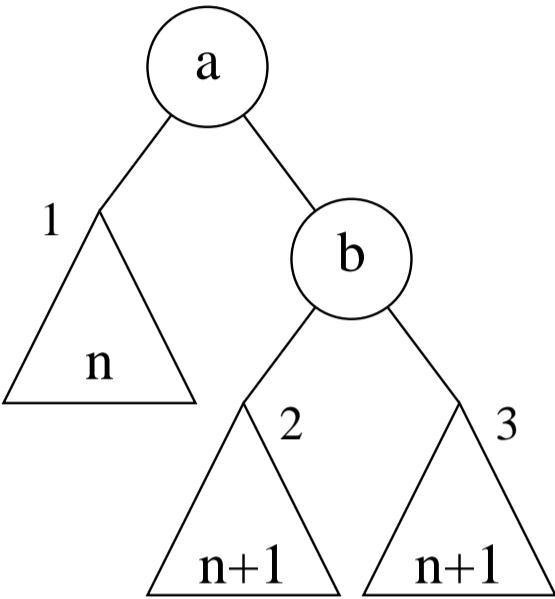


or

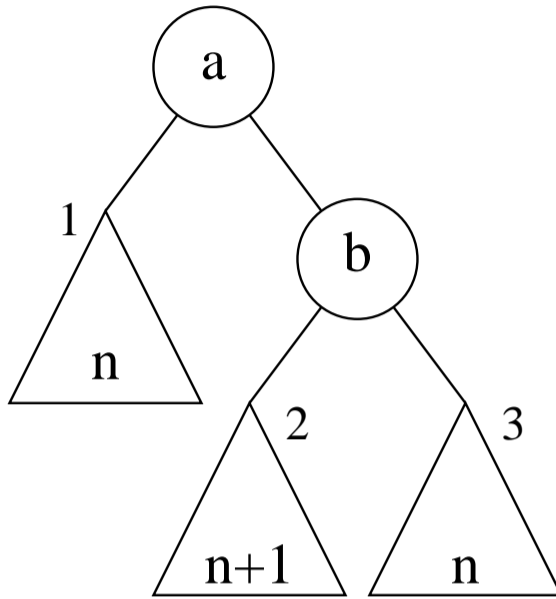


three cases:

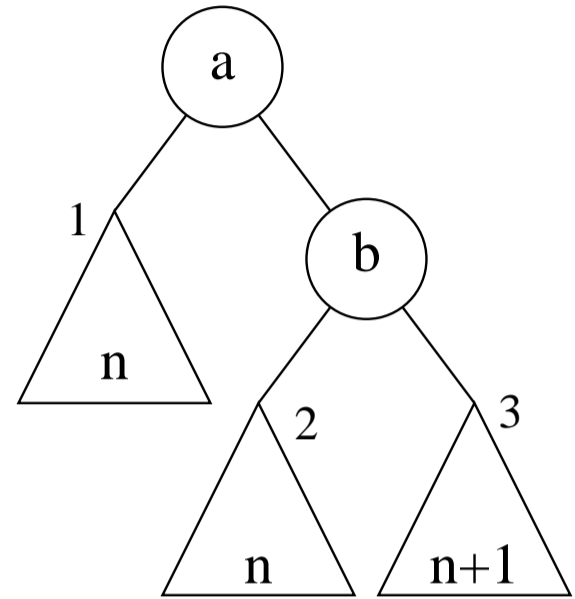
symmetric



or



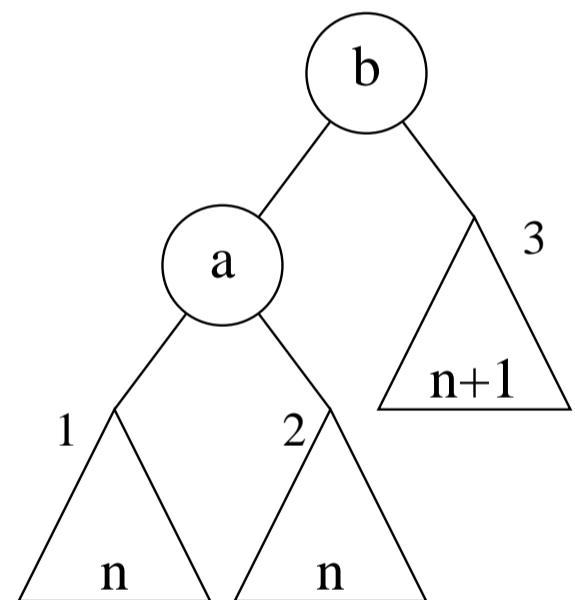
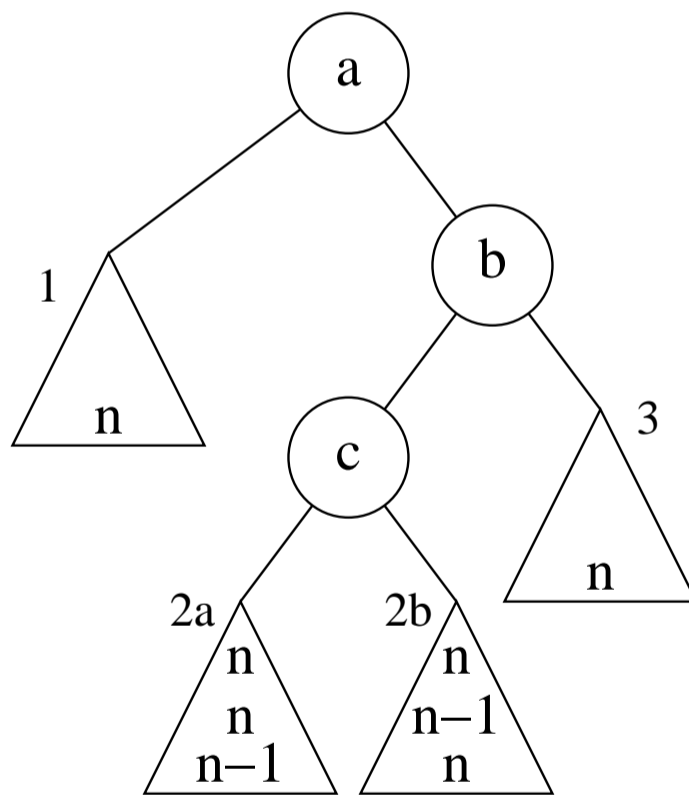
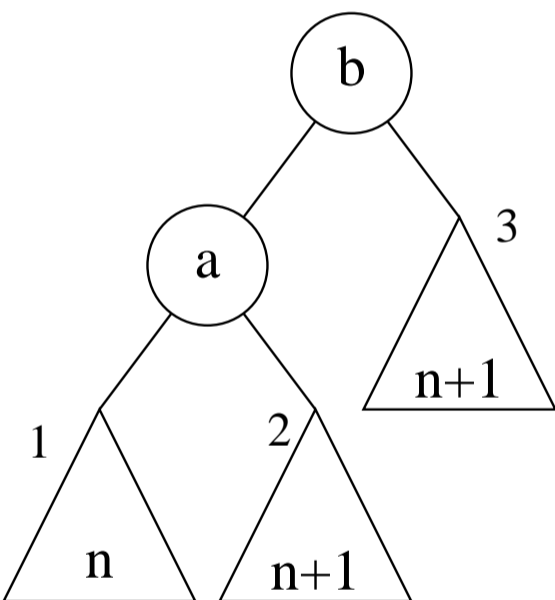
or



restructures to

three cases:

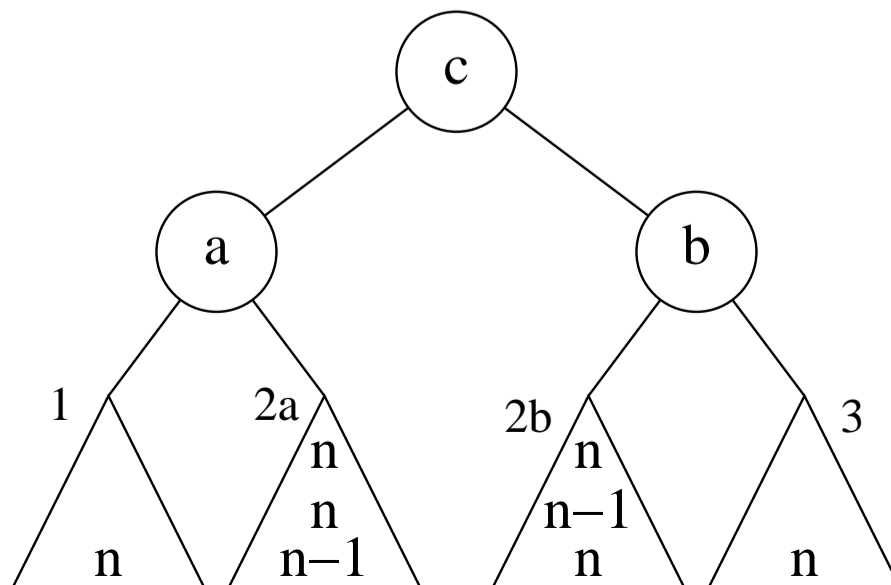
restructures to



done

done

restructures to



done