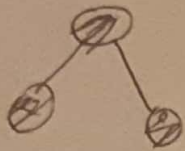


problem 1 : a 3 node tree with all nodes black is not derivable from the insertion algorithm



proof

adding one element to tree

⊙ - root is black

- adding second element

⊙ new node is red

- adding third element

