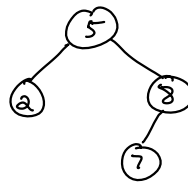


Method insert (K key, V value)

set this → root to

insertInSubtree(key, value, this → root)



iIS(5, "a", x) ⇒ 5

EndMethod

Method insertInSubtree (K key, V value, Node* node)

If node == nullptr:

Return a new Node(key, value) w/ no children

Else node → key == key:

||

Else If key < node → key:

Set node → left to insertInSubtree(key, value, node → left)

Return node

Else

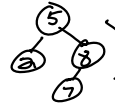
Set node → right to insertInSubtree(key, value, node → right)

Return node

End If

EndMethod

iIS(5, "a", 5) ⇒ ||

iIS(1, "z", ) ⇒

iIS(1, "z", 2) ⇒

iIS(1, "z", x) ⇒ 2

Exercise: how can we write update?