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Searches

- attempt to locate a particular key in a BST by viewing it as a decision tree

in the algorithm, it k occurs in a subtree moted at p, a cull to Tree Search results in the
position at which the key is found

Algorithm Tree Search (T, p, k);

if k == p. key() then

return p

Use if k < p. key() and T. left(p) is not None

return Tree Search (T, T. left(p), k)

else if k > p. key() and T. right(p) is not None

return Tree Search (T, T. right(p), k)

return p

Insertion

- the map command M[k]= v begins with a search for k

- if found, reasilyn

- otherwise, insert a new mode for the item into underlying tree T in place of empty subtree that was neached at end of failed search

Algorithm Tree Insert (T, k, v):

p = TreeSearch(T, T.rootl), t)

if k = p.key then

set p value to v

else if & & p. key () then

add node with Item (k,v) as left child of p

else

add node with item (k,v) as right child of p

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