TREE-SEARCH(x, k)

1 **if** $x ==$ NIL or $k == x.key$
2   **return** x
3 **if** $k < x.key$
4   **return** TREE-SEARCH($x.left, k$)
5 **else return** TREE-SEARCH($x.right, k$)

ITERATIVE-TREE-SEARCH(x, k)

1 **while** $x \neq$ NIL and $k \neq x.key$
2   **if** $k < x.key$
3          $x = x.left$
4   **else** $x = x.right$
5 **return** x