OS-RANK($T, x$)

1  $r = x.left.size + 1$  **//** rank of $x$ within the subtree rooted at $x$
2  $y = x$  **//** root of subtree being examined
3  **while** $y \neq T.root$
4    **if** $y == y.p.right$  **//** if root of a right subtree …
5      $r = r + y.p.left.size + 1$  **//** … add in parent and its left subtree
6    $y = y.p$  **//** move $y$ toward the root
7  **return** $r$