LEFT-ROTATE(T, x)

```
 1  y = x.right
 2  x.right = y.left          // turn y's left subtree into x's right subtree
 3  if y.left ≠ T.nil         // if y's left subtree is not empty ...
 4      y.left.p = x          // ... then x becomes the parent of the subtree's root
 5  y.p = x.p                 // x's parent becomes y's parent
 6  if x.p == T.nil           // if x was the root ...
 7      T.root = y            // ... then y becomes the root
 8  elseif x == x.p.left      // otherwise, if x was a left child ...
 9      x.p.left = y          // ... then y becomes a left child
10  else x.p.right = y        // otherwise, x was a right child, and now y is
11  y.left = x                // make x become y's left child
12  x.p = y
```