

TREE-SUCCESSOR( $x$ )

if  $\text{right}[x] \neq \text{nil}$

then return TREE-MINIMUM( $\text{right}[x]$ )

$y \leftarrow p[x]$

while  $y \neq \text{nil}$  and  $x = \text{right}[y]$

do  $x \leftarrow y$

$y \leftarrow p[y]$

return  $y$