

TREE-DELETE(T, z)

if $z.left == \text{NIL}$

 TRANSPLANT($T, z, z.right$) // z has no left child

elseif $z.right == \text{NIL}$

 TRANSPLANT($T, z, z.left$) // z has just a left child

else // z has two children.

$y = \text{TREE-MINIMUM}(z.right)$ // y is z 's successor

if $y.p \neq z$

 // y lies within z 's right subtree but is not the root of this subtree.

 TRANSPLANT($T, y, y.right$)

$y.right = z.right$

$y.right.p = y$

 // Replace z by y .

 TRANSPLANT(T, z, y)

$y.left = z.left$

$y.left.p = y$