```
TREE-DELETE (T, z)
    if z.. left == NIL
        TRANSPLANT(T, z, z.right)
                                             // replace z by its right child
    elseif z.right == NIL
        TRANSPLANT(T, z, z, left)
                                             // replace z by its left child
    else y = \text{TREE-MINIMUM}(z.right)
                                             // y is z's successor
        if y \neq z. right
                                             // is y farther down the tree?
             TRANSPLANT(T, y, y.right)
                                             // replace y by its right child
             y.right = z.right
                                             // z's right child becomes
             y.right.p = y
                                             // y's right child
                                             // replace z by its successor y
10
        TRANSPLANT(T, z, y)
        y.left = z.left
                                             // and give z's left child to y,
11
                                                    which had no left child
12
        y.left.p = y
```