Transplant (T, u, v)if u.p := NIL T.cor = Velse if u = u.p.left u.p.left = Velse u.p.right = Vif v = Nil v.p = u.p

Tree-Delete(T,Z)

if Z, left == NiL

\$ Transplant(T, Z, Z, right)

else if Z, right == Nil

\$ Transplant(T, Z, Z, left)

else

\$ y = Tree-Minimum(Z, right)

if y == Z, right

\$ Transplant(T, Y, Y, right)

\$ y, right = Z, right

\$ y, right, p = y

Transplant(T, Z, Y)

\$ y, left = Z(eft)

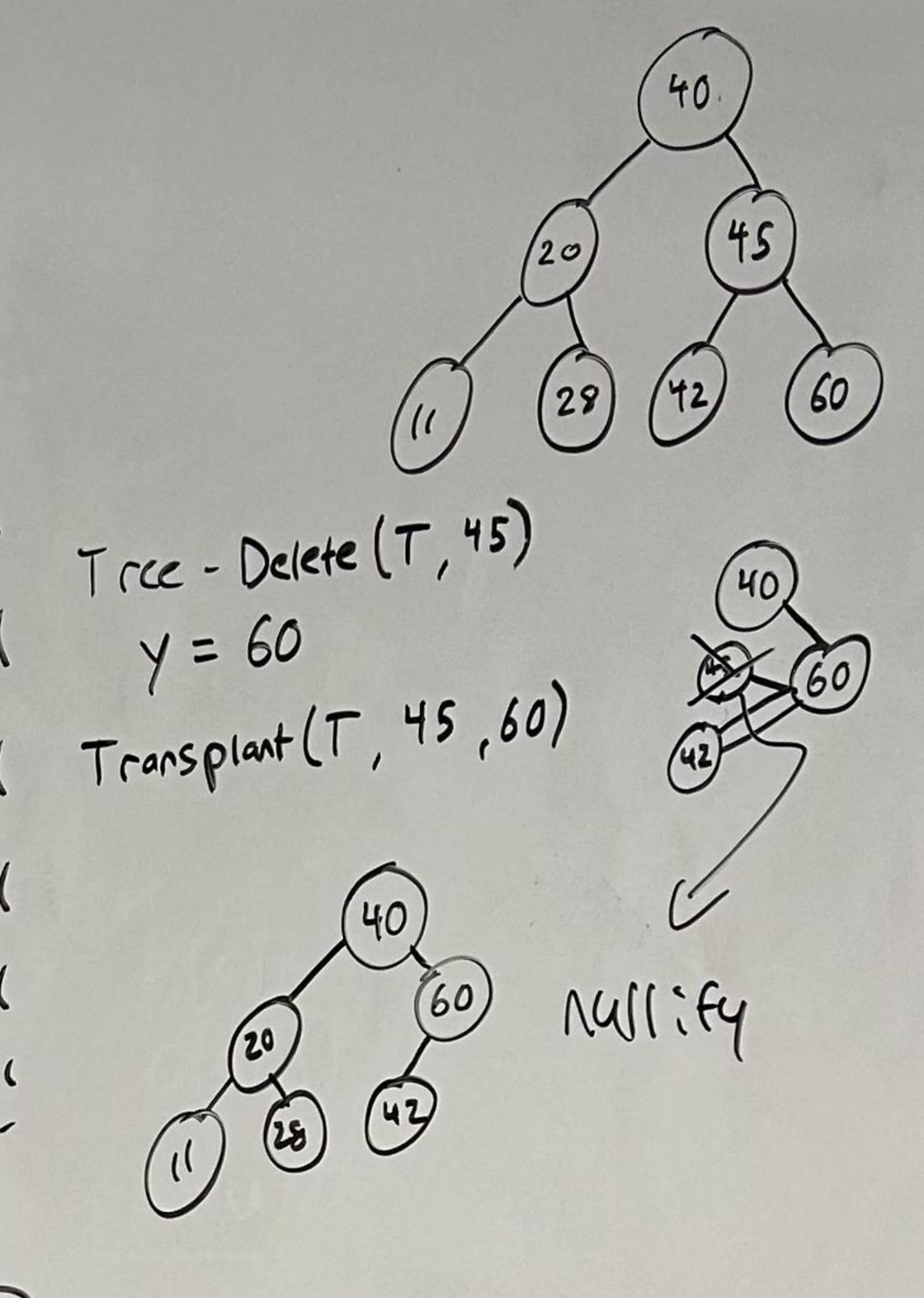
\$ y, left = Z(eft)

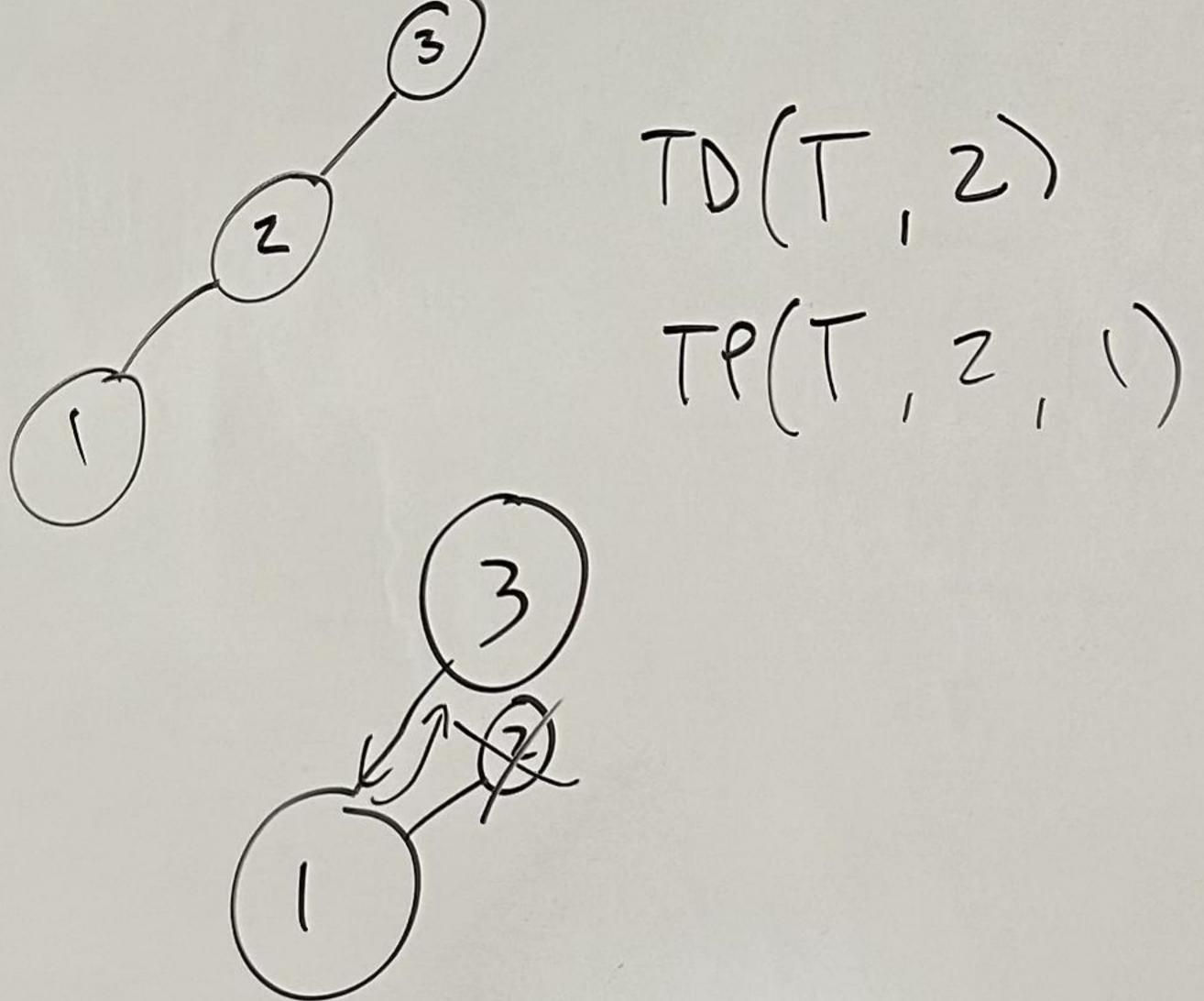
Replaces sub-tree readed at U

With subtree readed at U

Transplant (T, 45, 60)

U=45, V=60





Charac C + Sub + C C+a+a+a+c Carac

