THEOREM $TypeOK \Rightarrow (Next1 \equiv Next3)$

$pfstepnum11.$ SUFFICES ASSUME $TypeOK$

PROVE $Next1 \equiv Next3$

$pfstepnum1$ USE DEF $Next1, Next3$

$pfstepnum11a. Next1 \Rightarrow Next3$

OBVIOUS

$pfstepnum12. Next3 \Rightarrow Next1$

$pfstepnum21.$ CASE $b = 0$

OBVIOUS

$pfstepnum22.$ CASE $b = 1$

OBVIOUS

$pfstepnum23.$ QED

BY $pfstepnum21, pfstepnum22$ DEF $TypeOK$

$pfstepnum13.$ QED

BY $pfstepnum11a, pfstepnum12$

CLOSE