———————— MODULE *clock* ————————

EXTENDS *TLC*, *Naturals*

VARIABLE *hr*

$HCini \triangleq hr \in (1 .. 12)$

$HCnext \triangleq hr' = $ IF $hr = 12$ THEN 1 ELSE $hr + 1$

$HC \triangleq HCini \wedge \Box[HCnext]_{hr}$

THEOREM $HC \Rightarrow \Box HCini$

—————————————————————————