

MODULE <i>HourClock</i>
EXTENDS <i>Naturals</i> VARIABLE <i>hr</i> $Init \triangleq hr \in (1 \dots 12) \triangleq (1,2,3,4,5,6,7,8,9,10,11,12)$ $Next \triangleq hr' = (hr \% 12) + 1$ $Spec \triangleq Init \wedge \Box [Next]_{\langle hr \rangle}$
THEOREM $Spec \Rightarrow \Box Init$