```
— MODULE clock -
{\tt EXTENDS}\ TLC,\ Naturals,\ Sequences,\ FiniteSets
VARIABLES
       min,
       hr
\begin{array}{c} ClockTypeOK \ \stackrel{\triangle}{=} \\ \land \ min \ \in \ 0 \ \dots \ 59 \end{array}
        \land \, hr \in 1 \mathinner{.\,.} 12
Init \; \stackrel{\scriptscriptstyle \Delta}{=} \;
       \wedge \min = 0
        \wedge hr = 12
Next \triangleq
        \lor \land min \neq 59
              \wedge \mathit{min'} = \mathit{min} + 1
              \wedge hr' = hr
        \vee \ \land min = 59
              \wedge \min' = 0
              \wedge hr' = \text{if } hr \neq 12 \text{ then } hr + 1 \text{ else } 1
ClockSpec \stackrel{\Delta}{=} Init \wedge \Box [Next]_{\langle min, \, hr \rangle}
```