

```

1 |----- MODULE HourClock -----|
2   EXTENDS Naturals
3   VARIABLE hr
4   HCini     $\triangleq$  hr ∈ (1 .. 12)
5   HCnext    $\triangleq$  hr' = IF hr ≠ 12 THEN hr + 1 ELSE 1
6   HC        $\triangleq$  HCini ∧ □[HCnext]hr
7 |-----|
8   THEOREM  HC ⇒ □HCini
9 |-----|

```