

```

┌────────────────────────── MODULE ClockSpec ───────────────────────────┐
EXTENDS Integers
CONSTANT N
ASSUME (N ∈ Nat) ∧ (N > 1)
*****
--algorithm ClockSpec{
  variable c = 0;

  process ( Tick ∈ 0 .. (N − 1) )
  { t: while ( TRUE )
    { await c = self;
      c := (c + 1)%N
    }
  }
}
*****
BEGIN TRANSLATION
VARIABLE c

vars ≜ ⟨c⟩

ProcSet ≜ (0 .. (N − 1))

Init ≜ Global variables
        ∧ c = 0

Tick(self) ≜ ∧ c = self
              ∧ c' = (c + 1)%N

Next ≜ (∃ self ∈ 0 .. (N − 1) : Tick(self))

Spec ≜ Init ∧ □[Next]vars

END TRANSLATION
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\ * Modification History
\ * Last modified Sat Jun 07 08:37:57 CST 2014 by yaojingguo
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