```
(*********************************************************
--algorithm HSClock {
  variable ca = [i \in 0..(N-1) |-> 0];

  process (Proc0 = 0)
     {t: while (TRUE)
          {await ca[0] = ca[N - 1];
           ca[0] := ca[0] (+) 1
          }
     }

  process (Proc \in 1..(N-1))
     {t: while (TRUE)
          {await ca[self] # ca[self - 1];
           ca[self] := ca[self] (+) 1
          }
     }
}
 *********************************************************)
```