

```

initialize  $x$ ;
int  $n := 0$ ;
while (true) {
    int  $k := n + \text{offset}$ ;
    read  $u$  at  $k$ -th clock tick;
    compute  $x := F(x, u)$ ;
    compute  $y := G(x)$ ;
     $k := k + \text{let}$ ;
    write  $y$  at  $k$ -th clock tick;
     $n := n + \text{period}$ ;
}

```

