──────────────────── MODULE *TickTock* ────────────────────

```
**************************************************************************

--algorithm TickTock{
    variable b = 0;

    process ( Tick = 0 )
      { t0: while ( TRUE )
              { await b = 0;
                 b := 1
                 }
        }

    process ( Tock = 1 )
      { t1: while ( TRUE )
              { await b = 1;
                 b := 0
                 }
        }
}

**************************************************************************
```

BEGIN TRANSLATION
VARIABLE b

$vars \triangleq \langle b \rangle$

$ProcSet \triangleq \{0\} \cup \{1\}$

$Init \triangleq$ Global variables
$\quad\quad\quad \wedge b = 0$

$Tick \triangleq \wedge b = 0$
$\quad\quad\quad \wedge b' = 1$

$Tock \triangleq \wedge b = 1$
$\quad\quad\quad \wedge b' = 0$

$Next \triangleq Tick \vee Tock$

$Spec \triangleq Init \wedge \square[Next]_{vars}$

END TRANSLATION

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