

A Two Process Clock

```
--algorithm Clock {  
  variable  $b \in \{ \}$ ;  
  process ( $Tick = \text{“tick”}$ )  
    {  $i$ : while (TRUE) { await  $b = 0$  ;  
                                $b := 1$   
                                }  
    }  
  process ( $Tock = \text{“tock”}$ )  
    {  $o$ : while (TRUE) { await  $b = 1$  ;  
                                $b := 0$   
                                }  
    }  
}
```

```
--algorithm Clock_1{  
  variable  $b \in \{0, 1\}$ ;  
  process_1(Tick_1 = "tick")  
    {1 $i$ : while (TRUE) {1await  $b = 0$ ;  
    1 $b := 1$ ;  
    }  
  }  
  process_1(Tock_1 = "tick")  
    {1 $o$ : while (TRUE) {1await  $b = 1$ ;  
    1 $b := 0$ ;  
    }  
  }  
}
```