```
Orderet lock: airplane bathroom
Orderet lock: airplane bathroom
                                            locked = Wre
                                             locks = E3
LOCKPOOL: orderex lock is now
                                             access mor
                                               lock
    waitins failse
                                                 acquire access
     available []
                                                   18 locked
     war kes
             unlocked
                                                     add lock to locky
     grow by n
                                                     Wait on 51910 (
     9100 Wolkers
                                                   else
      lock mox
       grow available
                                                      locked = true
       waiting = true
                                                m 6ck ()
        Mlock n times
     acquire
                                                    acroine access
       if not waiting
                                                   if locks empty
         → lock
        lock mux
                                                       locker - false
         de fer waiting = available empty ()
                                                        return true
         return available. pop()
     release
                                                     else
        10ck mux
                                                         pop locks
      pugh avantable
                                                         return falce
         waiting - Hrue
       UNlock
                                             100 K
                                                    100
   acquire
     lock will let 1 through
                                                availalle = [3
                   Je Fore there's one
                                                aveilable locke mux
       lock mux
       defer waiting = available empty ()
                                                 Waiting = talse
       return available. pop()
   release
                                                 Waiting - lock Slaved mux
       push available
                                                  a de (a)
         U1 1001C
                                                     acquire available-lock
       e(se
         waiting - Hrue
                                                      adé n moxes to available
                                                     unique loule withous_lock
                                                      waiting = unlock a mes
                                                   9cgv(2)
                                                       shared lack vaiting_lock
                                                        load waiting
                                                      Unlock unity ng - lock
                                                        16 waiting as of lock
                                                        9090/re available_1006
                                                        defer vaiting = available out empty
                                                        return auxilalle. pop(1
                                                 release (worker)
                                                        acquire available_lock
                                                         Push worker to available
```

16 locked

C/se

Un (OCIC ()

waiting = true

```
Orderet lock: airplane bathroom
   atomic locked = true
      locks = []
    access mor
       lock
        acquire access
         18 locked
           add lock to locky
           Wait on 51910
          e/se
            locked = true
       mbck (
           acroine access
          If locks empty
             locker - false
             return true
           else
              pop locks
              return falce
          100
       available = [3
       ave 1006 - locke mux
        Walting = toolse
        waiting - lock Slaved mux
         a de (n)
           acquire available-lock
            adé n moxes to available
           small lock withs - lock
             ugytrage unlock a mes & tooks (M)
                           10cked= 15 H 6065 > 1
         9CGV(2)
             shared lack vaitors - lack
             16aA/ wasting,
             Un/1004/
                    44. h 191- 164 C.
             1 hot wa, +/19 45/04 /100 2/
             90901/e available_1006
                                         - logleas - avartable hor sapty
              Migae tock Jaitans-lock
             defer ugnitional= about a stantempty
              return auxilaile. P.P(1)
       release (worker)
             acquire available_lock
              Push worker to available
              if Nod Sect
                  Un (och ()
```