```
shared variables:  sem e = 1;          # one copy per monitor
                   int nc = 0;         # one copy per condition
                   queue delayQ;       #   variable cv
                   sem private[N];     # one entry per process

monitor entry:  P(e);

wait(cv):     nc = nc+1; insert myid on delayQ; V(e);
              P(private[myid]); P(e);

signal(cv):   if (nc > 0) {
                 nc = nc-1;
                 remove otherid from delayQ;
                 V(private[otherid]);
               }

monitor exit:  V(e);
```

Figure 6.7 Implementing monitors using semaphores.