```
      --- Paxos Proposer ---

 1  proposer(v):
 2    while not decided:
 2      choose n, unique and higher than any n seen so far
 3      send prepare(n) to all servers including self
 4      if prepare_ok(n, n_a, v_a) from majority:
 5        v' = v_a with highest n_a; choose own v otherwise
 6        send accept(n, v') to all
 7        if accept_ok(n) from majority:
 8          send decided(v') to all


      --- Paxos Acceptor ---

 9  acceptor state on each node (persistent):
10    n_p     --- highest prepare seen
11    n_a, v_a --- highest accept seen

12  acceptor's prepare(n) handler:
13    if n > n_p
14      n_p = n
15      reply prepare_ok(n, n_a, v_a)
16    else
17      reply prepare_reject


18  acceptor's accept(n, v) handler:
19    if n >= n_p
20      n_p = n
21      n_a = n
22      v_a = v
23      reply accept_ok(n)
24    else
25      reply accept_reject
```