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327 assignment 2: leader election
send_joining()---
if(guard) {
     enqueue_message(join);
     mydata->initiator = true;
}
loop()---
send_election()
send_election()---
if(initiator && !IsQueueFull() && state == COOPERATIVE)
     enqueue_message(ELECTION); //define ELECTION in header
     mydata->initiator = false;
enqueue_message(msg)-----
if (msg == ELECTION)
     data[MIN_ID] = mid_id; //define mid_id in header
else
message_rx()---- //callback method
     switch(data[msg])
          case ELECTION:
               if (data[ID] == myData->left)
                    receive_election();
               break;
          case ELECTED:
               break;
          default:
               break:
receive election()-----
initiator = true;
have one initiator for protocol
all nodes choose node with minimum ID: solve problem
leader color: white, if not, use red color
execute protocol when node joins (this node is the initator)
node sends electing(v) to successor
m = smallest ID of node
if node gets electing(other node)
     if node with other node < m
          node forwards electing(other node) clockwise and set other node to m
          node does not become leader
     else if other node > m and node is not participating
          v sends electing(m) to successor
     else if node = other node
          node sends elected(node) clockwise
if node gets elected(other node) with other node!= node
node forward elected(other node) clockwise and leader = other node
```