

# Messages in RA Algorithm

- enter() at process  $P_i$ 
  - set state to Wanted
  - multicast “Request”  $\langle T_i, P_i \rangle$  to all processes, where  $T_i =$  current Lamport timestamp at  $P_i$
  - wait until all processes send back “Reply”
  - change state to Held and enter the CS
- On receipt of a Request  $\langle T_j, P_j \rangle$  at  $P_i$  ( $i \neq j$ ):
  - if (state = Held) or (state = Wanted &  $(T_i, i) < (T_j, j)$ )  
// lexicographic ordering in  $(T_j, P_j)$   
add request to local queue (of waiting requests)  
else send “Reply” to  $P_j$
- exit() at process  $P_i$ 
  - change state to Released and “Reply” to all queued requests.