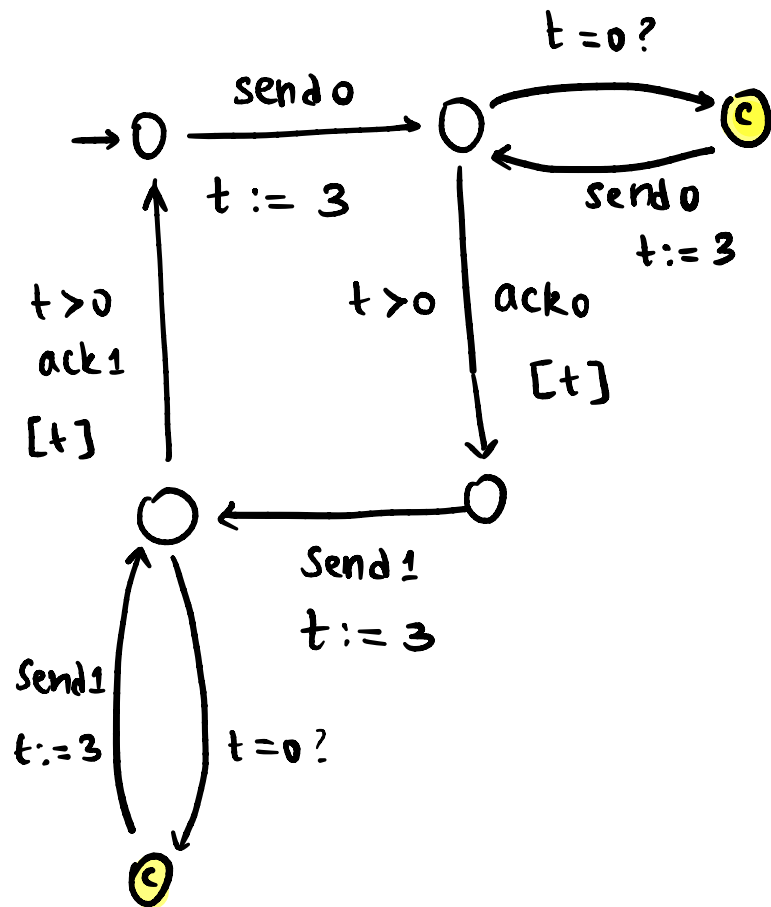
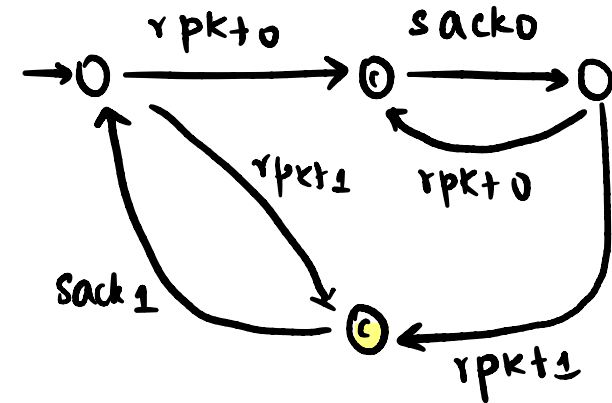


# Alternating-Bit Protocol.

Sender:

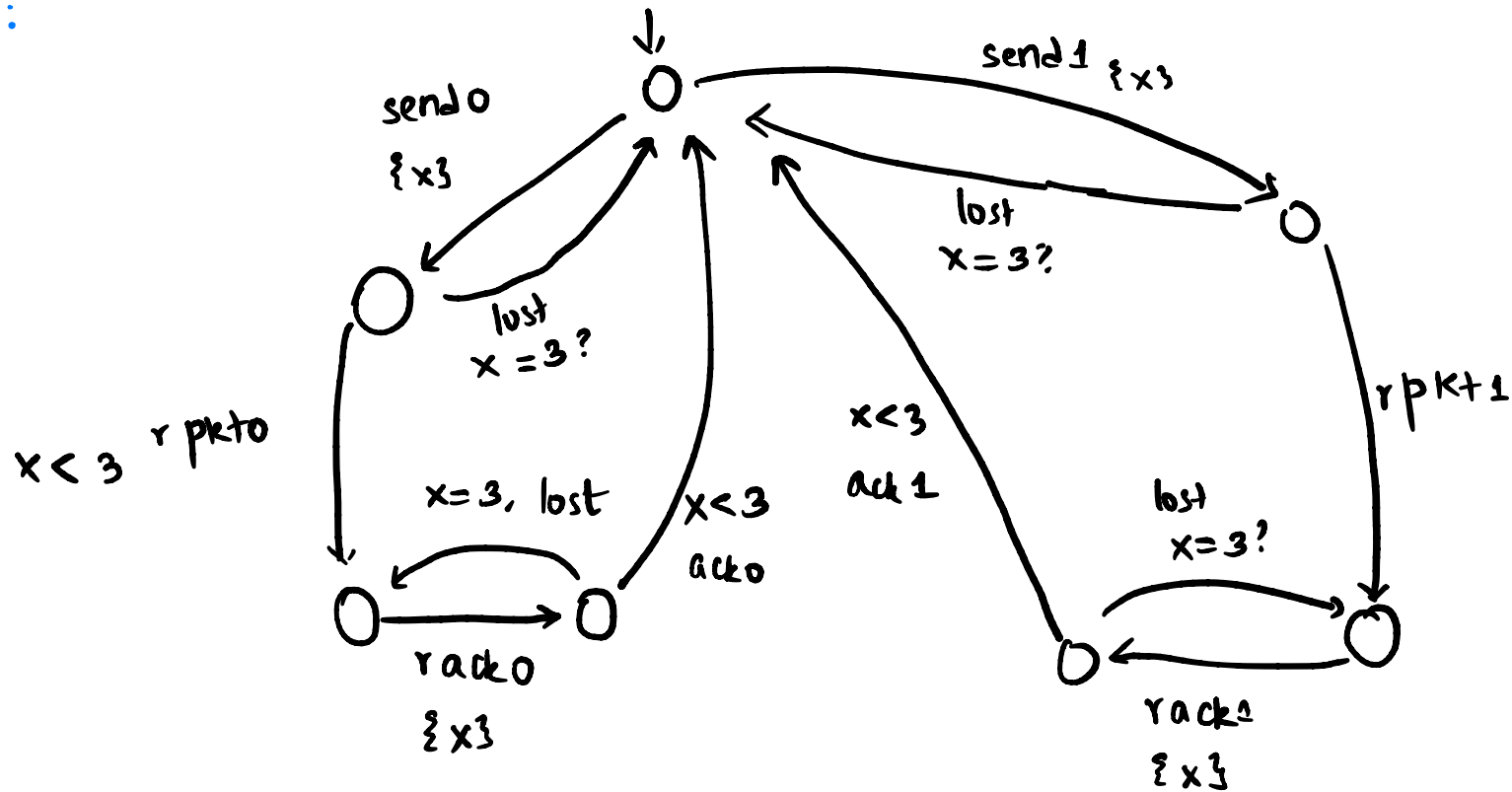


Receiver:



## Channel:

$x$ : clock



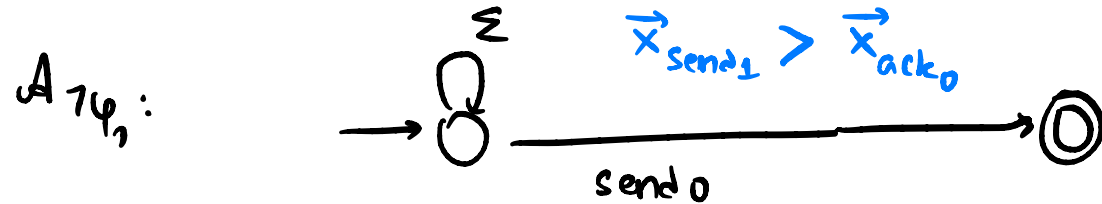
- Messages received:  $\text{send } 0, rack0, \text{send } 1, rack1$

If they are not sent within 3 time units,

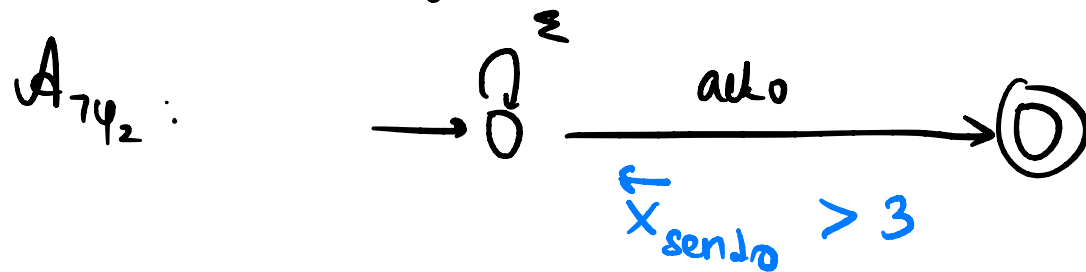
the channel does a local "lost" transition

Properties to be checked:

1)  $\varphi_1$ : between a  $\text{send}_0$  and  $\text{send}_1$ , there is an  $\text{ack}_0$



2)  $\varphi_2$ : An acknowledgement is received within 3 time units of the corresponding send.



This property is not satisfied.