

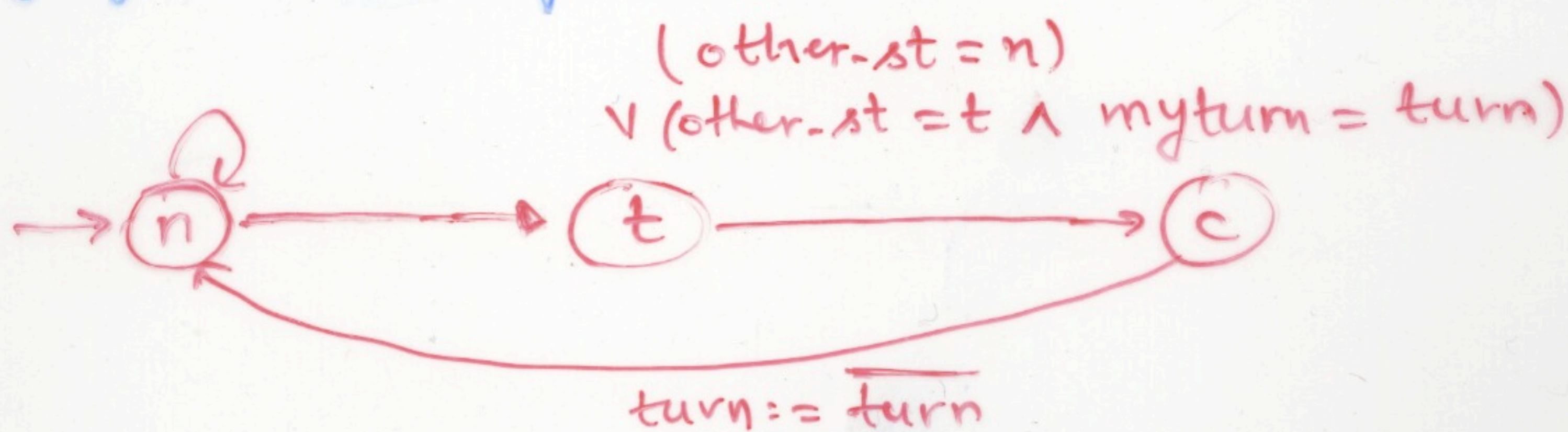
Model-Description

Model is used to represent behaviors of systems

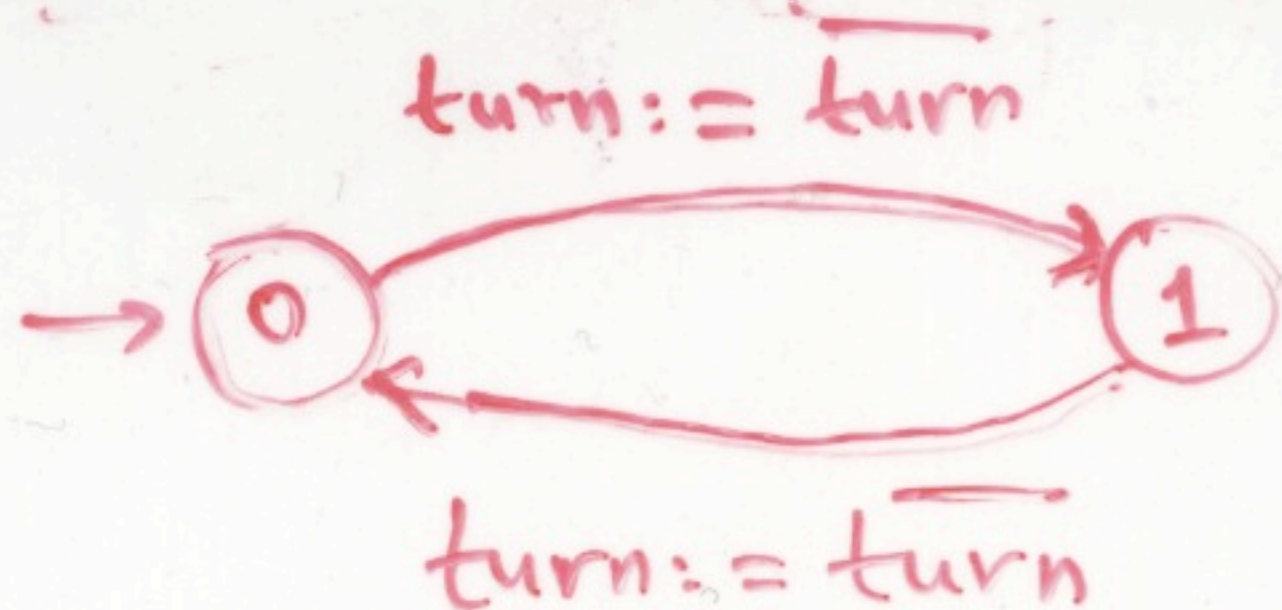
Example (Mutual Exclusion): Two processes, each can be in one of three states: non-critical (n), trying for critical (t), and critical (c).

One of the requirements of mutual exclusion is that processes never be in critical state together. (there are other requirements)

To have property of mutual exclusion variable "turn" is used. Process 1/2 can enter critical state from trying state only when "turn" has 0/1 value



Process 1: myturn = 0 ; Process 2: myturn = 1.



Complete model of two processes & turn shown on next page