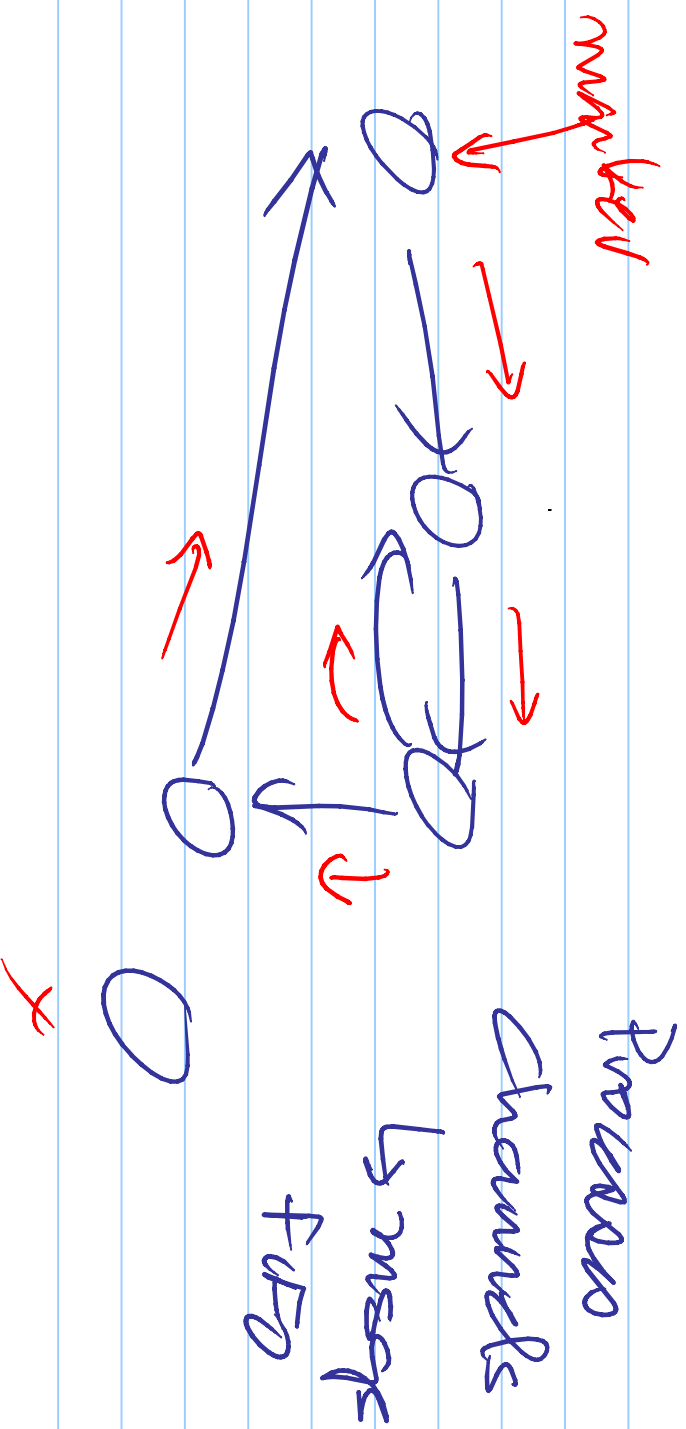


Note Title

Fall 2017

Class: 27

Date: 11/28



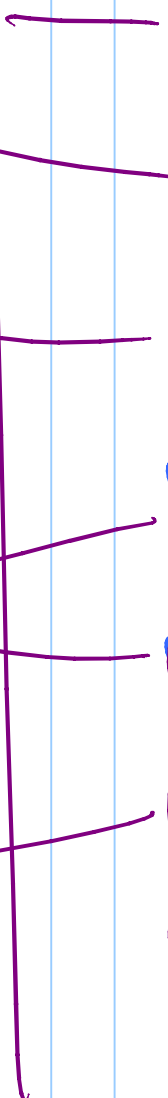
~~P~~ → Sequence of events / Event

P e e e e e e

~~P~~

e e e e e e e

P



e e e e e e e

Global
Sequence

In the global count seq.

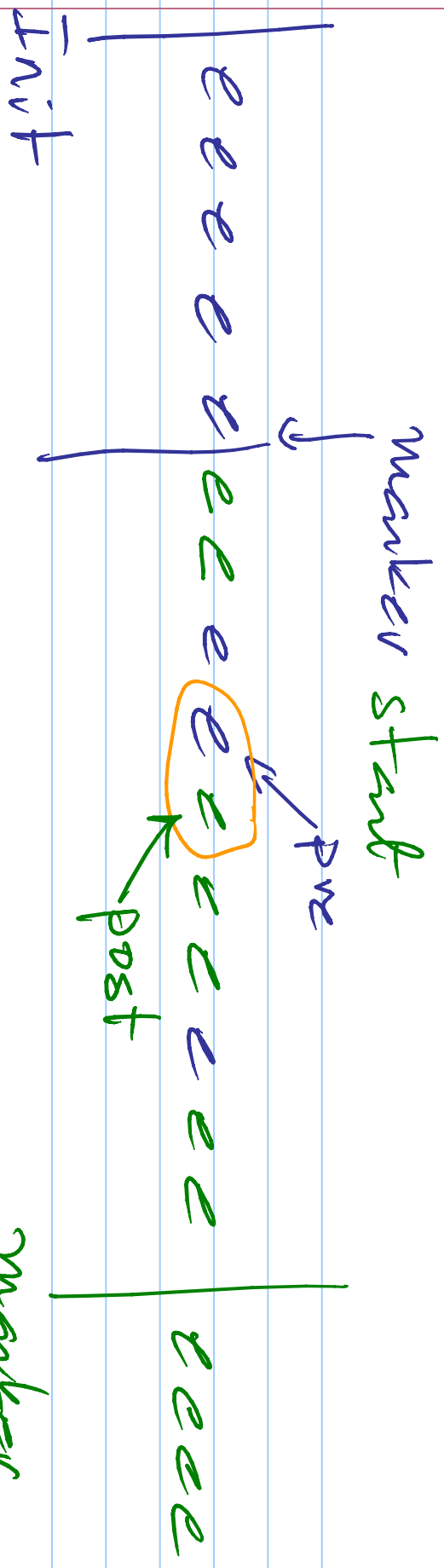
$e \rightarrow$ happened at p_n before

p_n recorded state

$\hookrightarrow$ PRE recording

$\rightarrow$ happened after $p_n \dots$

$\hookrightarrow$ POST REC



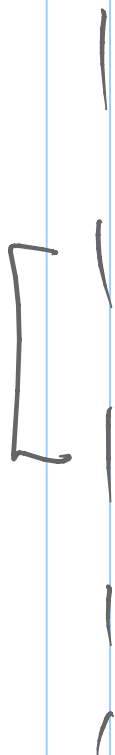
Pick two adjacent events

$[e_x \ e_y]$ $e_x = \text{post}$
 $e_y = \text{pre}$

NOT $\rightarrow e_x = \text{send}(m)$ $\rightarrow$ ~~msg~~ is same
 $e_y = \text{recv}(m)$ $\rightarrow$ the same

$e_x \neq e_y$
 are NOT
 events on
 same proc

Global Σ Seq



$e_x e_y \Rightarrow \text{unrelated}$

reorder to $e_y e_x$

$\hookrightarrow$ repeat

$\hookrightarrow$ until $\rightarrow$ all post after pre

pre

move from P_i
post



same process P_i

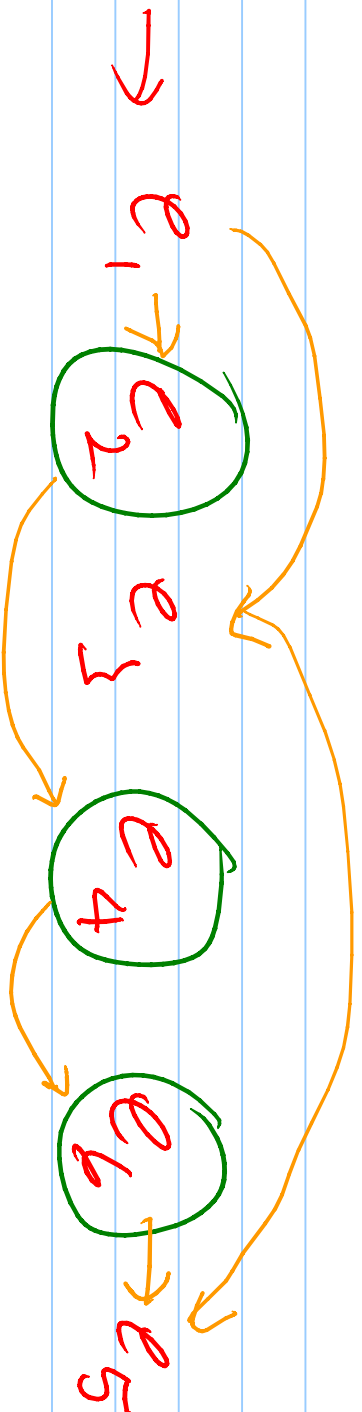
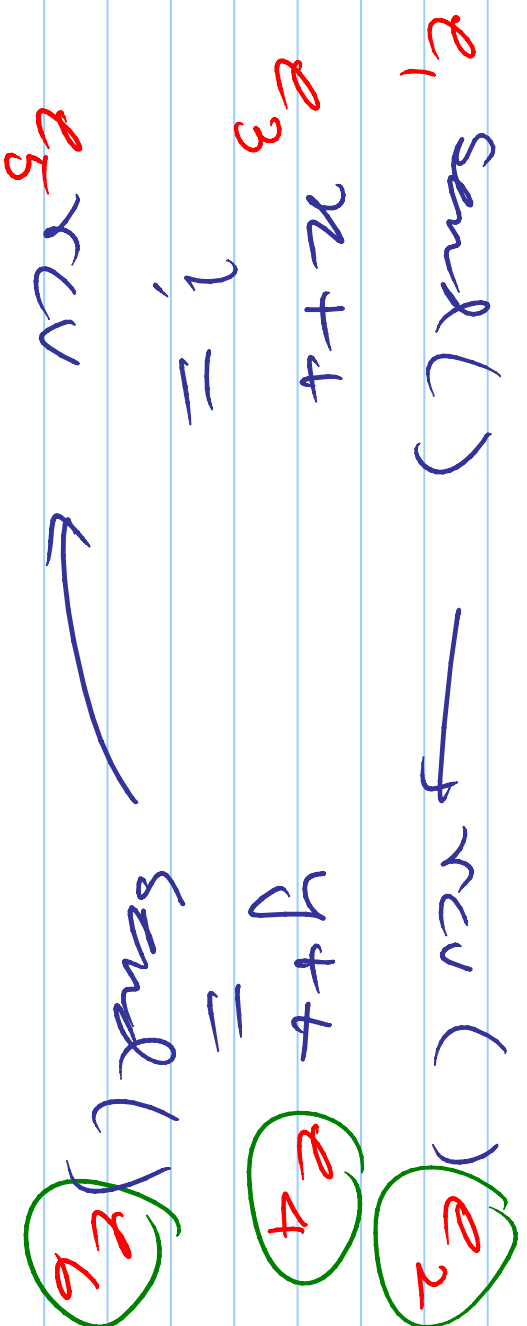
this global
state = recorded
state

P_i 's state was recorded here
 P_j
 P_k

unrelated events

P_1

P_2



Snapshot

