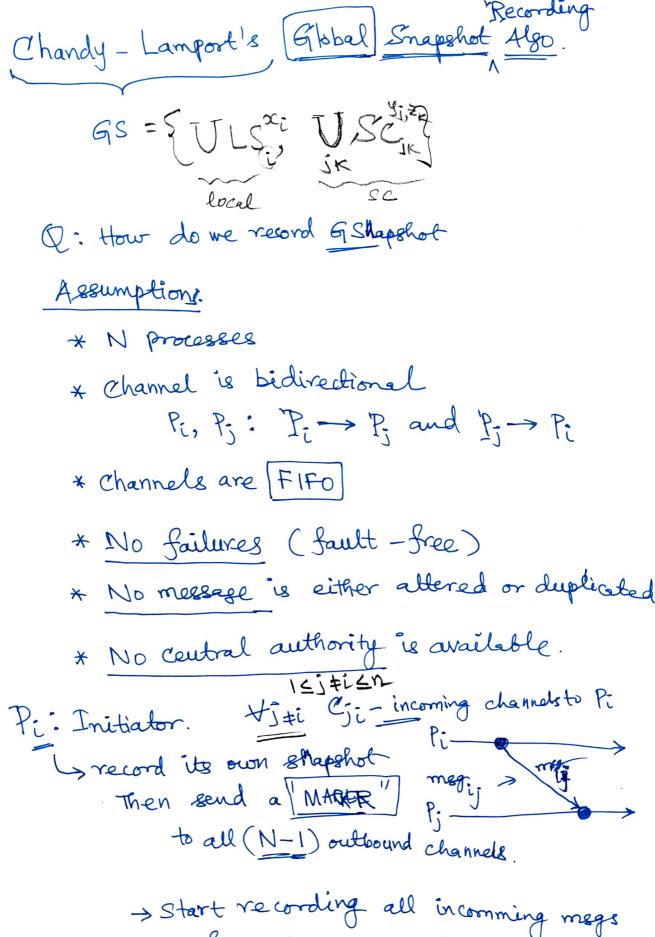
Reap:  $\underline{GiS} = \left\{ \bigcup_{i} LS_{i}^{x_{i}}, \bigcup_{j,k} SC_{jk}^{y_{j}, Z_{k}} \right\}$ local states between every pairof. processes j and k Do all Pix. +i,j, K, 1 Li, j, K < n. Consistent Global State: \* Causality \* A GIS is consistent GIS iff +mij: send (mij) & LSi mij & SCij / rec(mij) P2 1

GS={LS, LS2}

Changes in GIS?
-> Pi sends a messege
-> P: receives a message
-> Pi performs a local event
Pt Pi
1-a >Cji
Causality - order of messages must be preserved
of P P 0 ton D-conces.
2 cend ( $\alpha$ = 43 cmpty  2 end ( $\alpha$ ) cend ( $\alpha$ = 43 cmpty  2 end ( $\alpha$ ) cend ( $\alpha$ = 43 cmpty  value ( $\alpha$ = 4) value  ( $\alpha$ = 4) value  ( $\alpha$ = 4) value  ( $\alpha$ = 4) value  ( $\alpha$ = 4) value  ( $\alpha$ = 4) value
Y10 (P1) (P2) (Y2) (Z2) 3 :   (Z2)
Channel is reliable
Soult-free (confirmed send /receive) no channel loss no alteration of messages
* Check pointing
* Collecting GC
* Detecting deadlocks
* Fracing / debugging [DS LIN]



from Ci for j \i .

