Requirements of CS Problem/Synch, Mechanism Interister 1) Mutual Enclusion: No Two processes may be Simultaneously presen in their CS; 2) Progress: No process running out side (Noncs) Entry-sec the cs, should block Prevent Influence the other Interested processes from entering CS; 3) Brunded waiting: No process has to wait for ever to access There must be a bound on STARVATION the no. of times that a process is allowed to enter cs, before other process request is satisfied"

Synch Mechanisms while (comt == 2)) Blocking Non-Bury-weiting Busy-waiting If - Thin-elic OS-Based (Blocking Mechanismo) -> Sleep-Waking? -> TSL Instr) -> lock-variable -> SEMAPHORIZ -> SWAP " Bury -> Strict-Alternation weiting -> Peterson som -> MONITORS* Bury-waiting

Assumptions: In S.Ms. 1) PreEmption of Process Can happen when it is executing m Entry, Print or CS; s) Process is said to have left "cs" only if 2) lue assume cs is totally error-free; it completes exist 3) Every Rocen enters CS & Section; 100 Comes out of it, in Finite Jime; Entry 4) Process Can enter cs only after Completing entry Section cs as

Exit ~

6) If a process gets Pre Empted from GP4 while enecuting cs' Code, Then Still the process in Said to hold "cs";





