critical regions region of code we only want I through occessing at a time

mutexes

methal exclusion synchronization primitive

like a lock on an open door

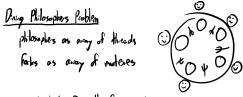
mutex m; m.lock();

munlack(); //any other thread waiting an n.lock() can proceed at this pt. , taking the lock" does not depend on which throad arrived at lock first a set not a group of working throads typically named mutex var Being Protected Lock;

pass is mater by referred!

ref (nlock) and material mhock in tread()
constructor

Mendlock: all threads are "stuck" (maybe at an m.lock() but neyle for other reasons)



squarte locks for all of your shared variables

You may to check for me conditions in code: f you put in sleep calls be publicus start to asse-they aren't creating problems, they're exposing them * avoiding deadlock...

what about a stack of possits? Only 2 philosophers can be eating out my given time keer 4 parmits - I former than would couse deadlock (e.g. w/ all 5 philosophus holding left forks)

nutures: to prevent a thread from getting a state old value of a variable not necessary if all threads are only reading the variable! necessary of writing is happening

goal: make critical region as small as possible while solution still marks