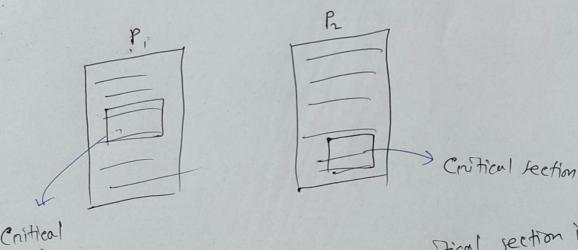
CSE 323/1-21/02.05. 2024/

Miltenm-2

1-23/11.05.2024/

(X) Critical Section Problem

If a part of a process is dependend on another part Of another process, then we can't run them in parallel. This is known as enitical section problem, and the part is known as critical section.



Cnitical section =) We com't nun these chilical section in panallel. But we can run other pants in parallel.

For penmission.

General structure

entry section/
critical section

[exit section]

remainder section

) while (true):

Solution to Critical Rection Problem

Generic Solution

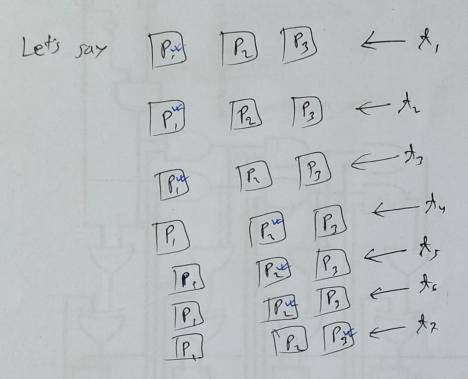
1) Mutual Enclusion:

if a process enecuting in critical section, then others, process can't enecute in their enitical section. That means only one process can num in critical section.

(i) Progress! If multiple proceess wants to enter their critical section, then we can't ignore all we must select one from them.

There is limit to for a process to enter in enitical section in continuous sequence if any other process are waiting for enter in their critical section.

asume limit is 3



Peterson's solutions (Critical Problem)

- load and stone instruction are atomic can't be internupted
- use two variable > applied between two process ind tunn => 2/2 | Second only.

 Boolean flag(2) first priscess

 Princess

 Princess

 Princess

 Princess

(P) > tunn = 2 & \$ flag[i]=T

& if P, wants to enten into its critical section then it will change it flags to True. flag[1] = True And Tunn = 2 (not set as own, it offen to second Process.) if (flag [2) = = True & & Tunn = = 2) The P2 num its enitical section) if this statement faire, then no process will enten to enstical flag [2)= False section. P. will still wait. P, waits When R want to enter, it will offen to second other one process. flag [2] = True Tunn = 1 if (flag [1) == True & & turn == 1) [then, P, will run in chitical section Project Repot - individual Plag [1) = False Slide - 12,13

Pr wait.

Project Show = 16th

Intro

wonking diagnam