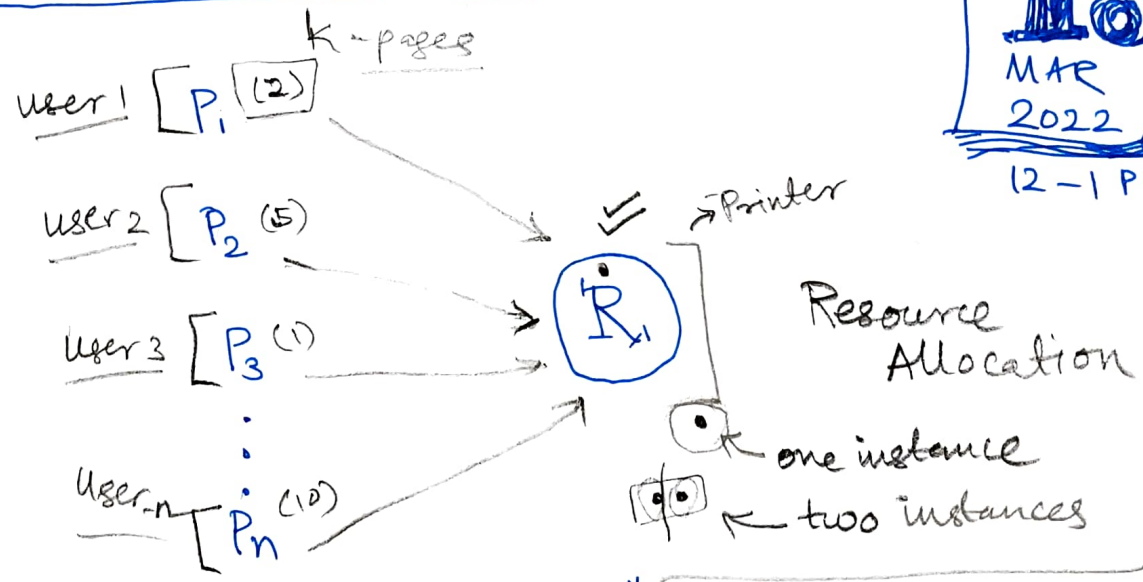


Mutual Exclusion

15
MAR
2022
12-1 PM



How will you solve this "Resource Allocation" problem?

m users $\rightarrow n$ resources

$m \times n$ request

s.t. the resource utilization is maximized

Optimization

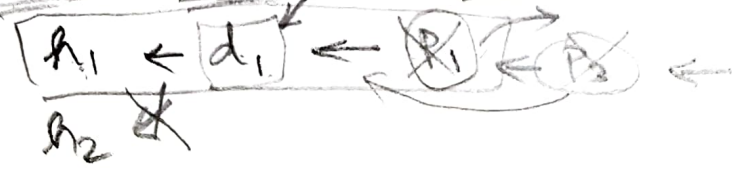
LPP / AP / opt. problem

⊕ the waiting time is reduced

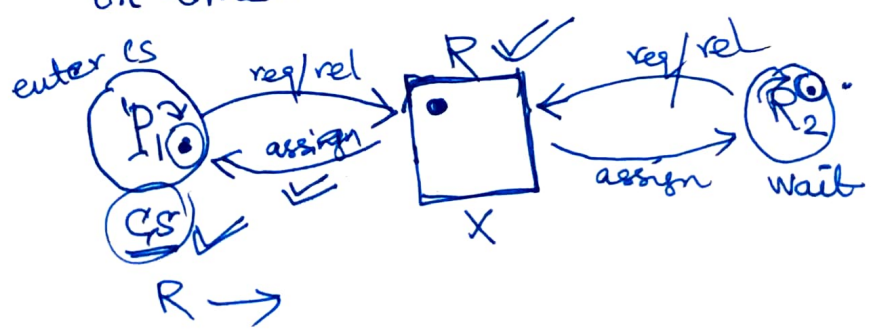
10 M — 20 workers ← Constraints

10 H — 100 Doc — 10 K

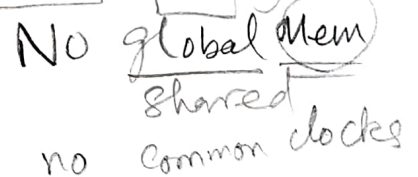
Critical Section:
CS:



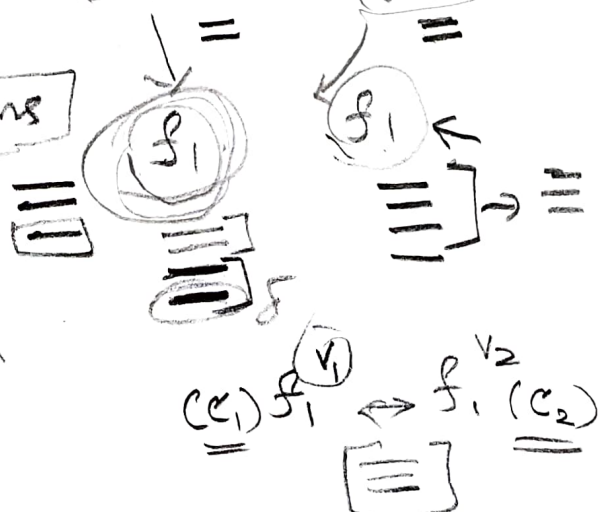
There is only one process in the CS at any point in time.



- Request (n ^{n PEs} request for one Resource)
- Acquire → only one PE is allowed @ a time
- Enter CS → Accessing the Resource
- Release → release the resource for reuse.



(terminal) / textpad / git



disk seek operations