Resources

storage (locations)

cores

I/O : mouse, keyboard
printer

Deadlocks
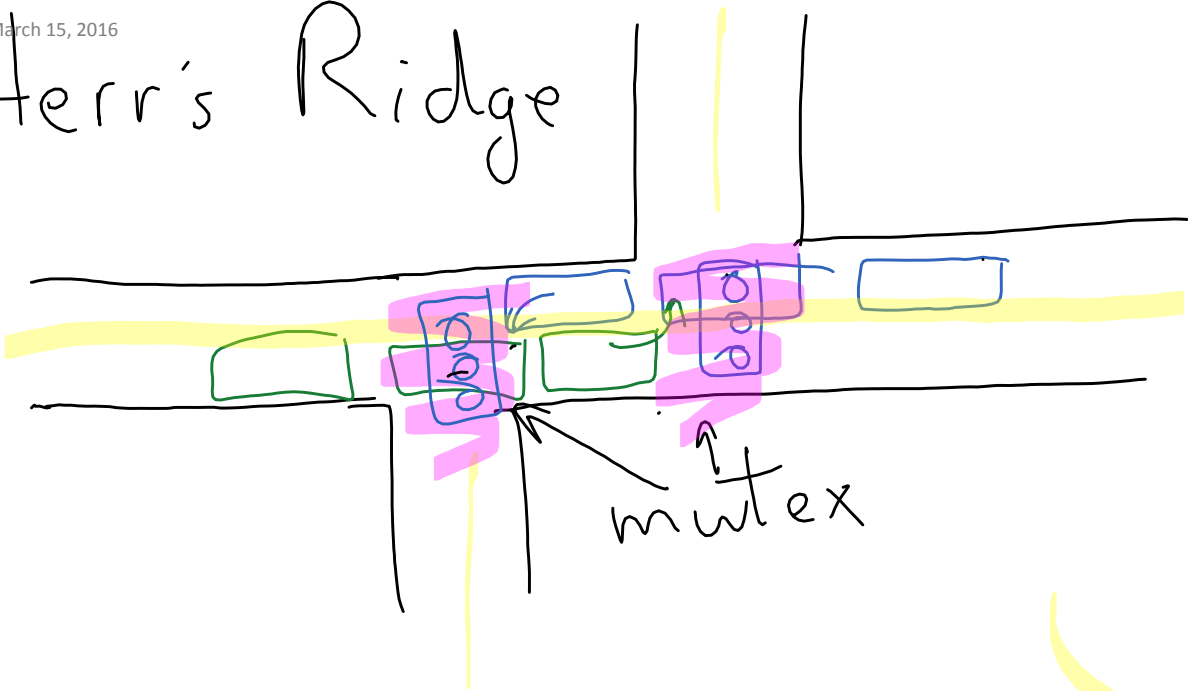
process

- request
- use
- release

① Mutual exclusion
② Hold and wait
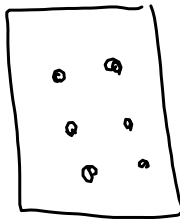③ No preemption
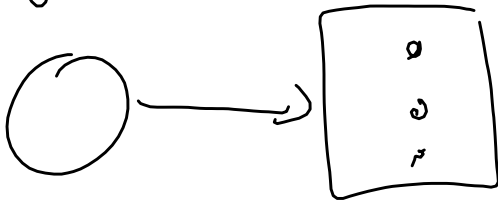④ Circular wait

Herr's Ridge

mutex

Resource Allocation Graph

proc: ◯   res: ▢
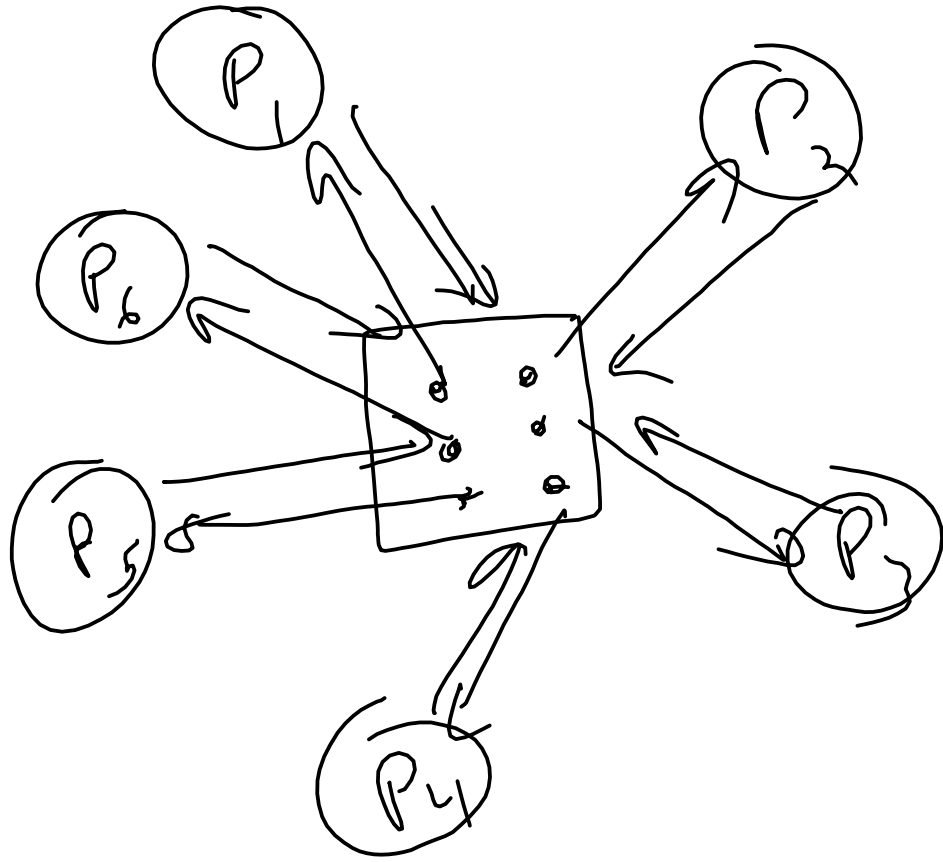
request   assignment
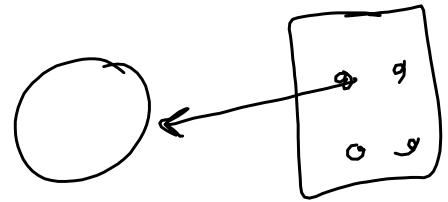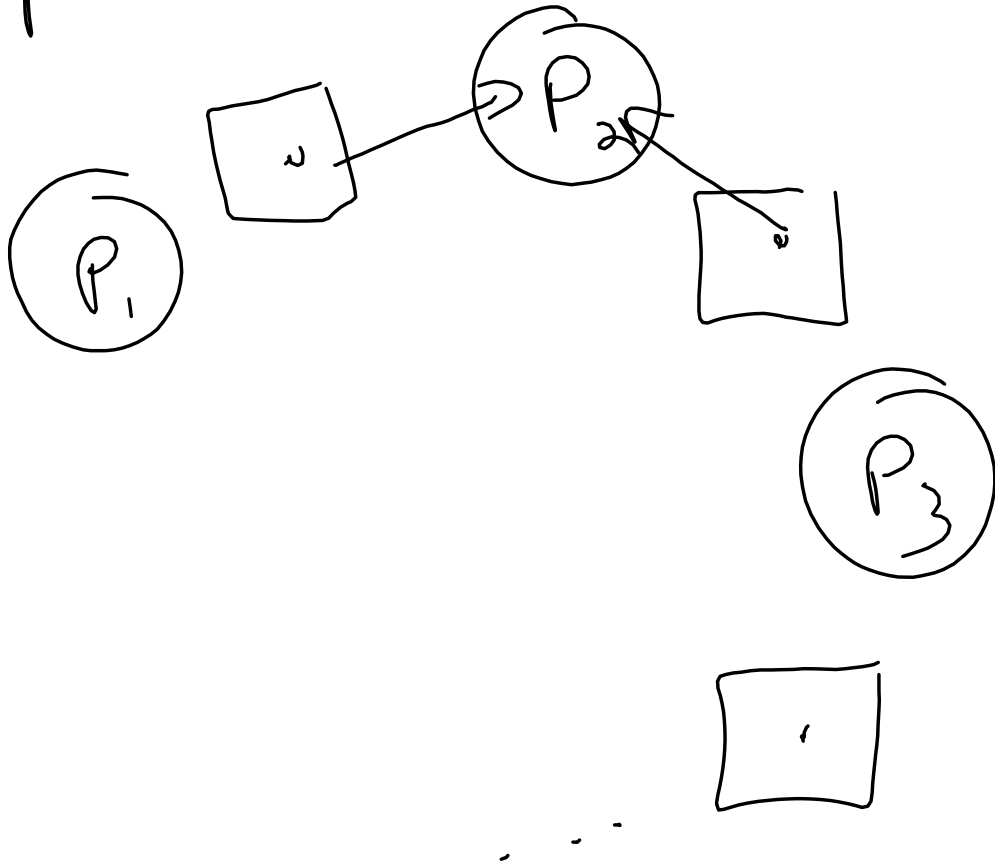
Philosophers

Phil. 2

Phil 3.
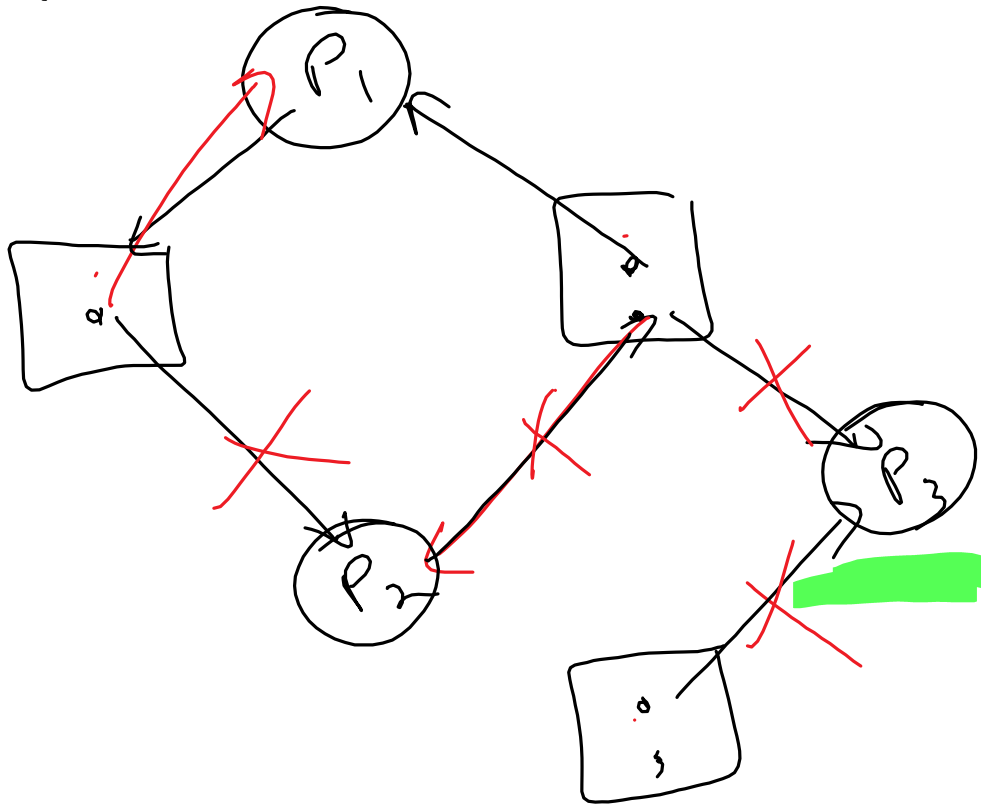
Ostrich Algorithm

ignore the problem

Prevention

prevent one of the four conditions

console

file

Circ. Wait

request
in order

A

B

C

1

2

3