

Lecture: 10

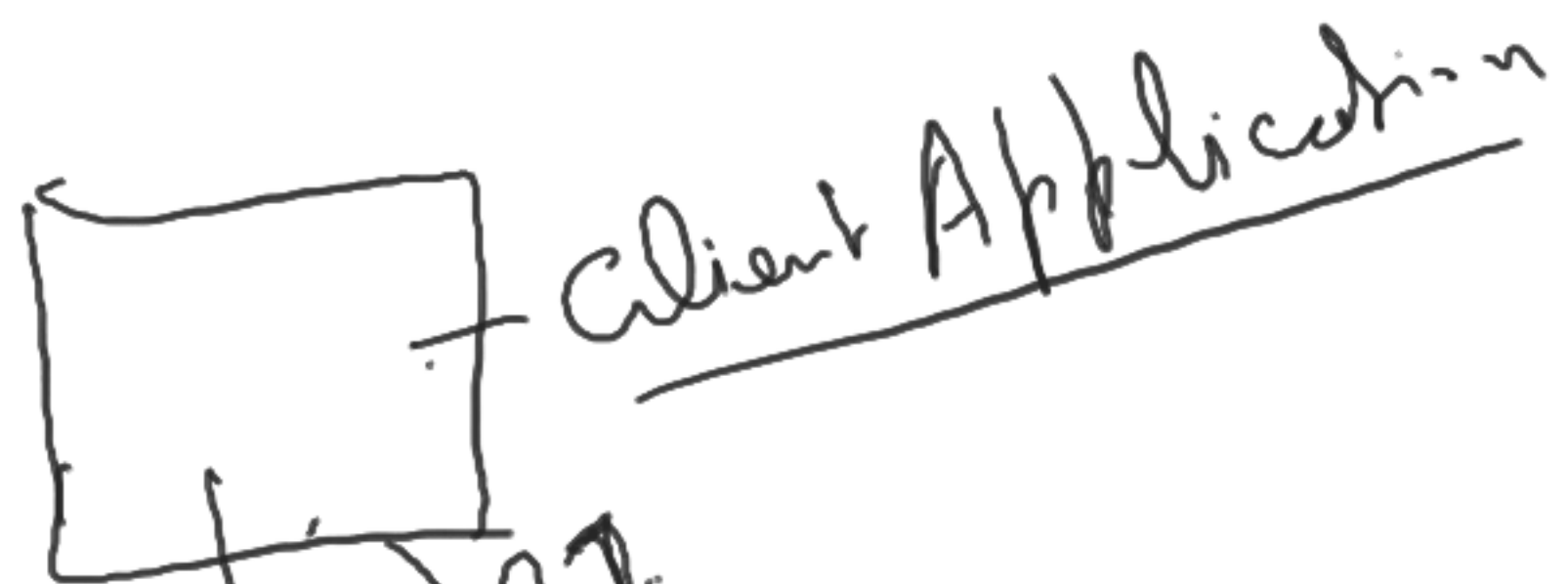
Topic of Discussion

- ① Chubby Implementation -
 - ② Benefits of Threads -
 - ③ Disadvantages of Threads -
 - ④ Serial Execution -
- Program
Process
Thread:
- Concurrency -
Parallelism -

- ① Preemption
- ②
 - Readlock
 - Starvation
 - Race Conditions
 - Critical Sections

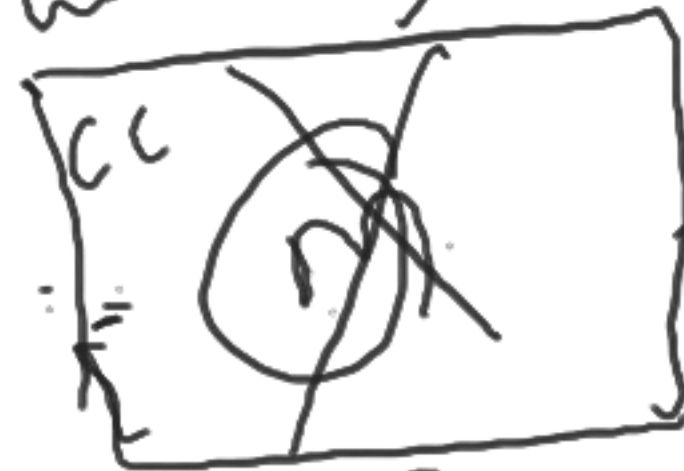
- ① Mutex
 - ② Semaphores
 - ③ Monitors
- } Binary Counting

System Design for Hypervisor



Chubby
cells

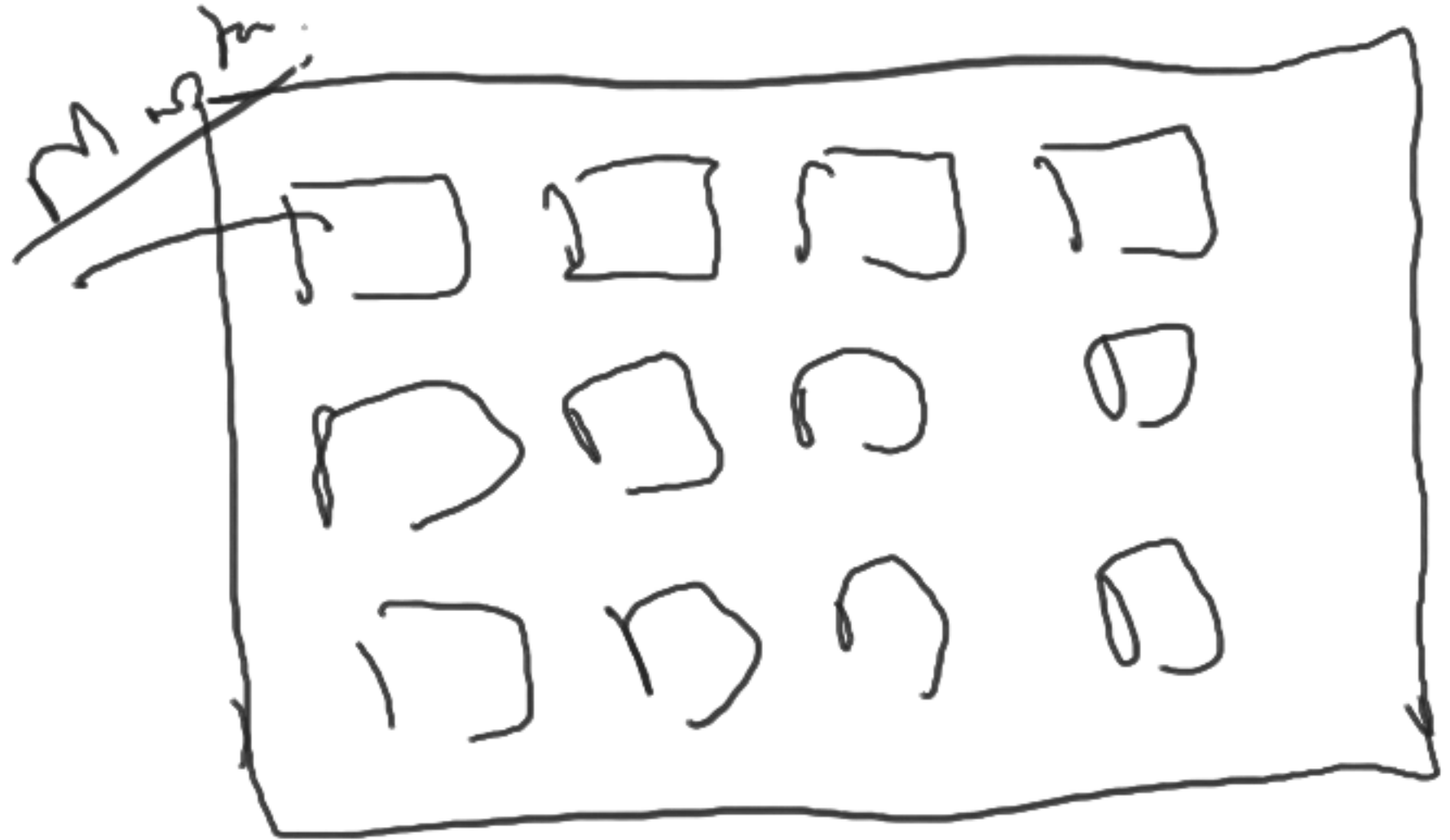
Master - F

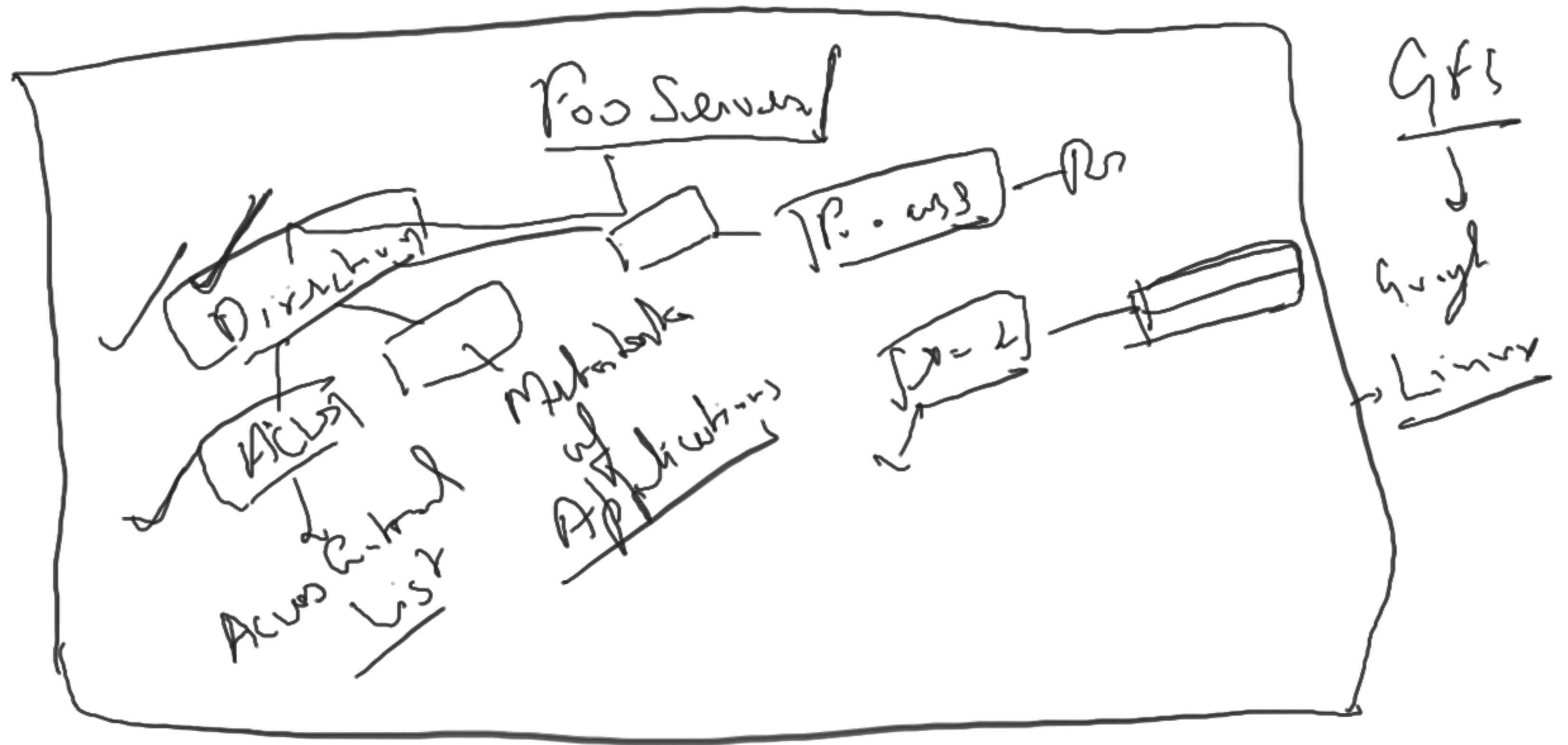


Read/Write
via mask

① Mask Locking Read/Write

② Provide Strong Consistency

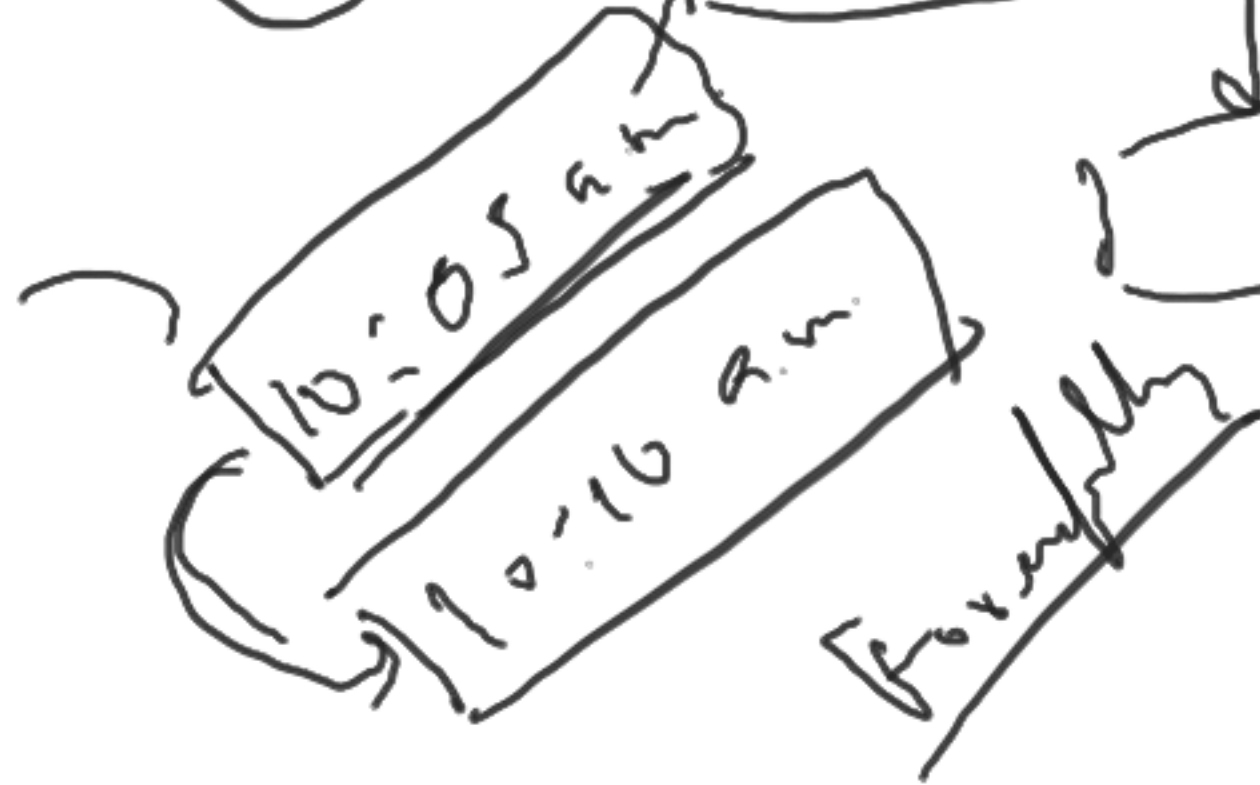
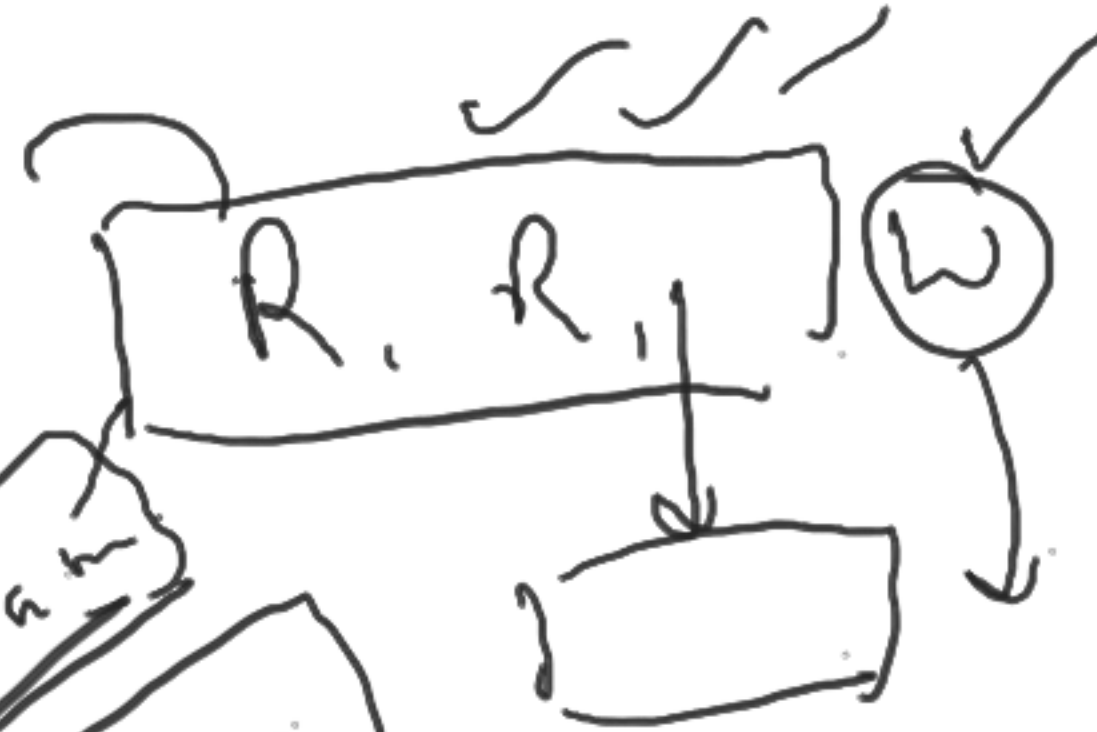




- ① Shared lock
- ② Permanent lock

Will Strongly Consistent

③



✓ OpenC)
✓ Cholesterol
✓ PivisonC)✓

handle ()

Open handle (C) ✓

↓ Grue Lake (✓)



uniquely
↓

✓ Archive()

- ~~Parabola~~ ()

- Policy Acquired)

✓ Set Acl()

Program: → `public static void main(String arg[])?`

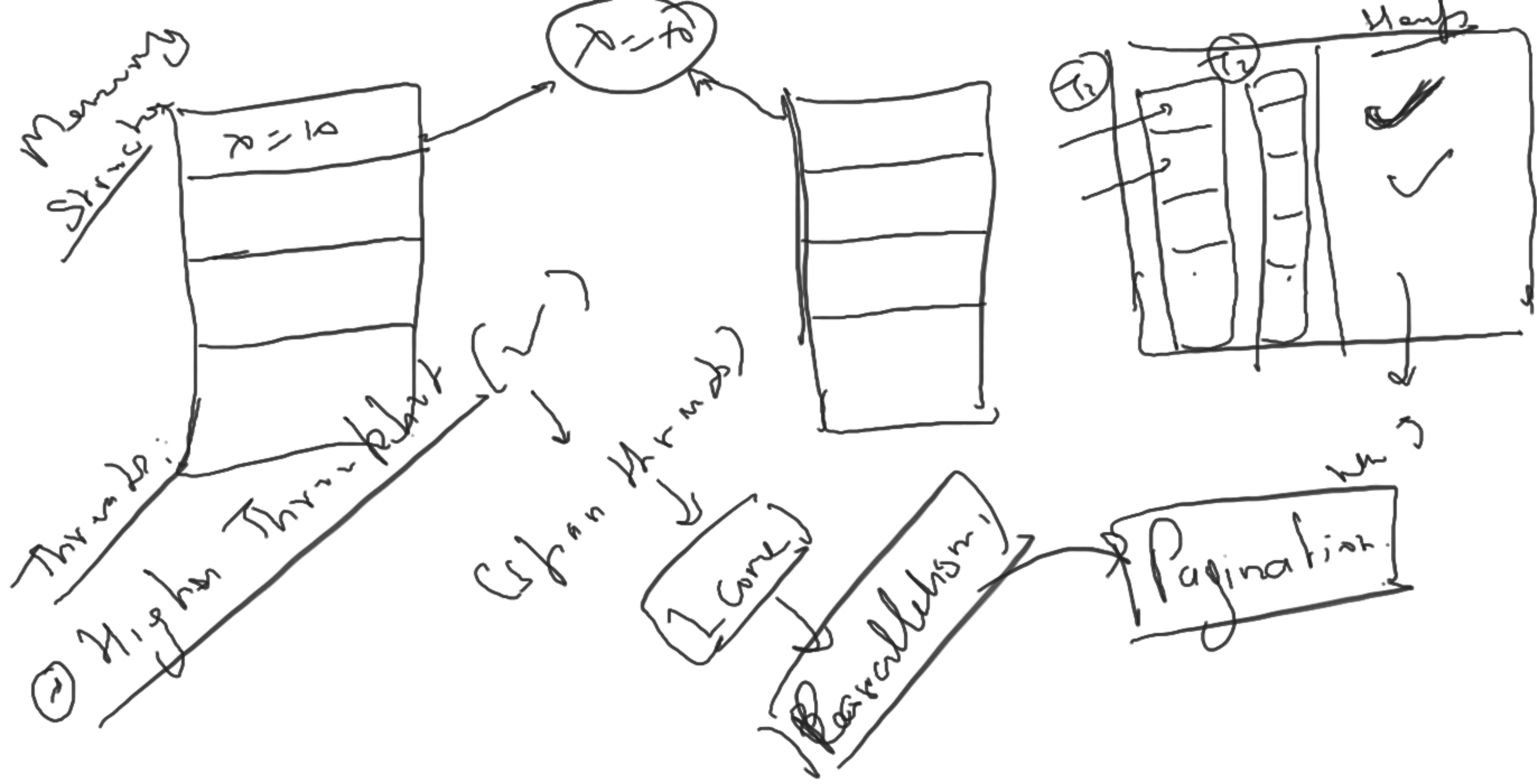
Program }

→
→

→ Process

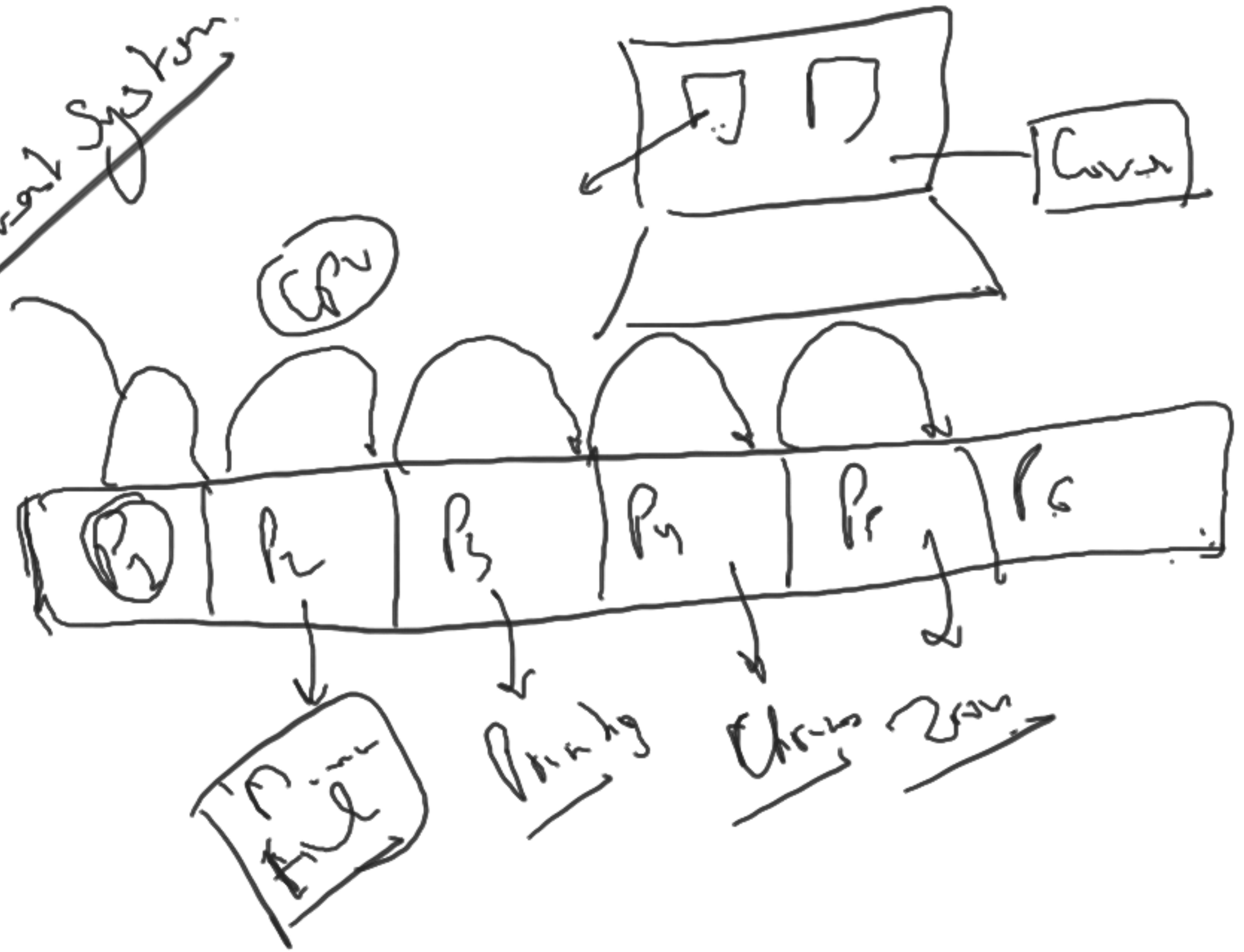
Threads

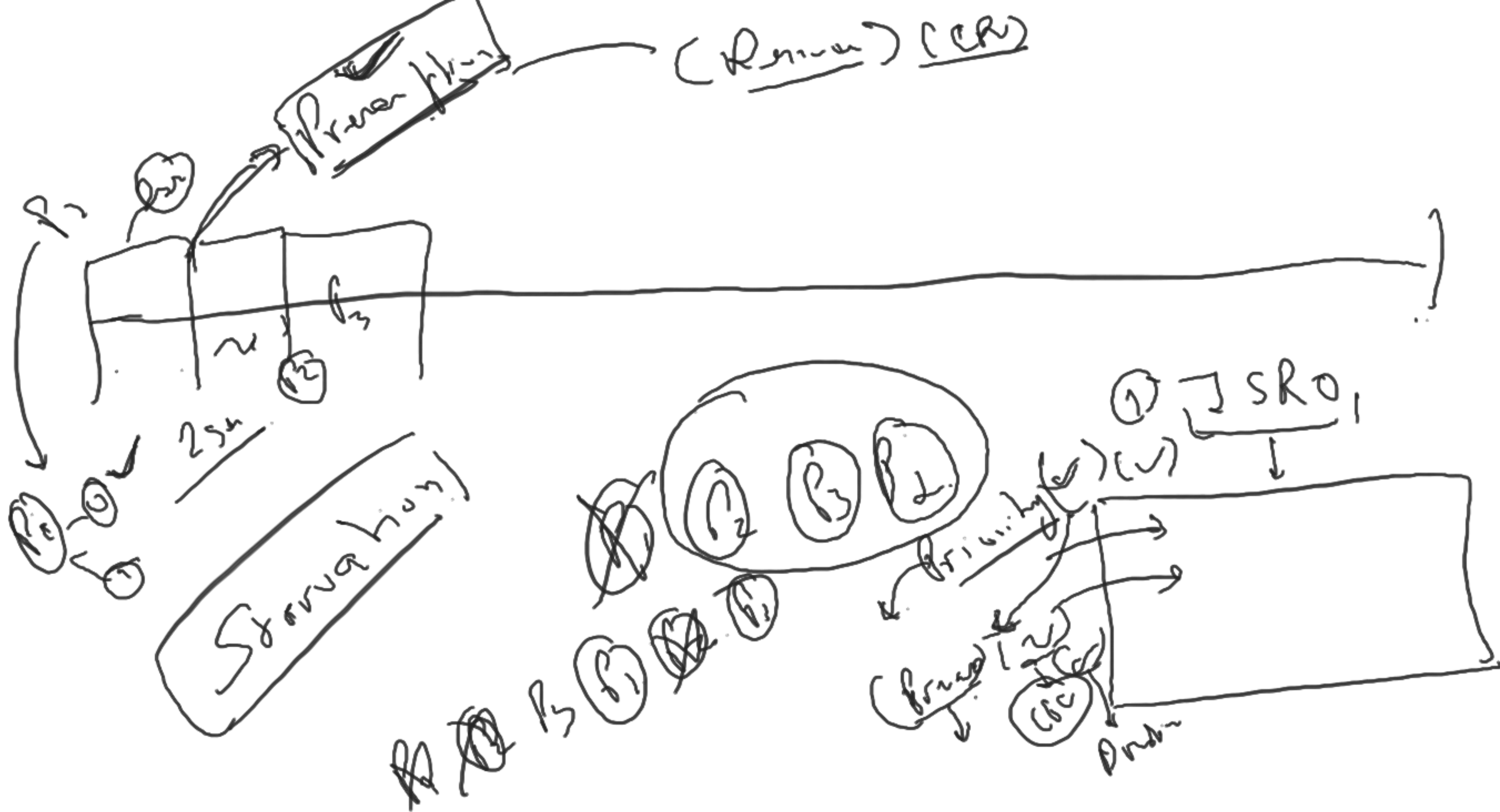
→ Smallest unit in Execution.

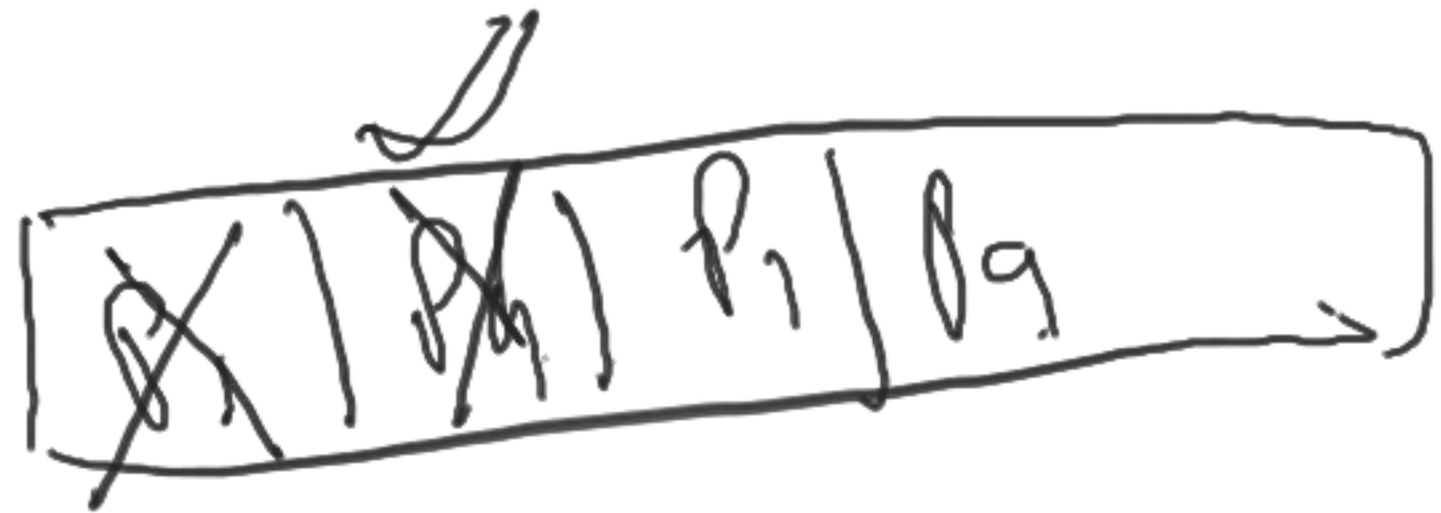
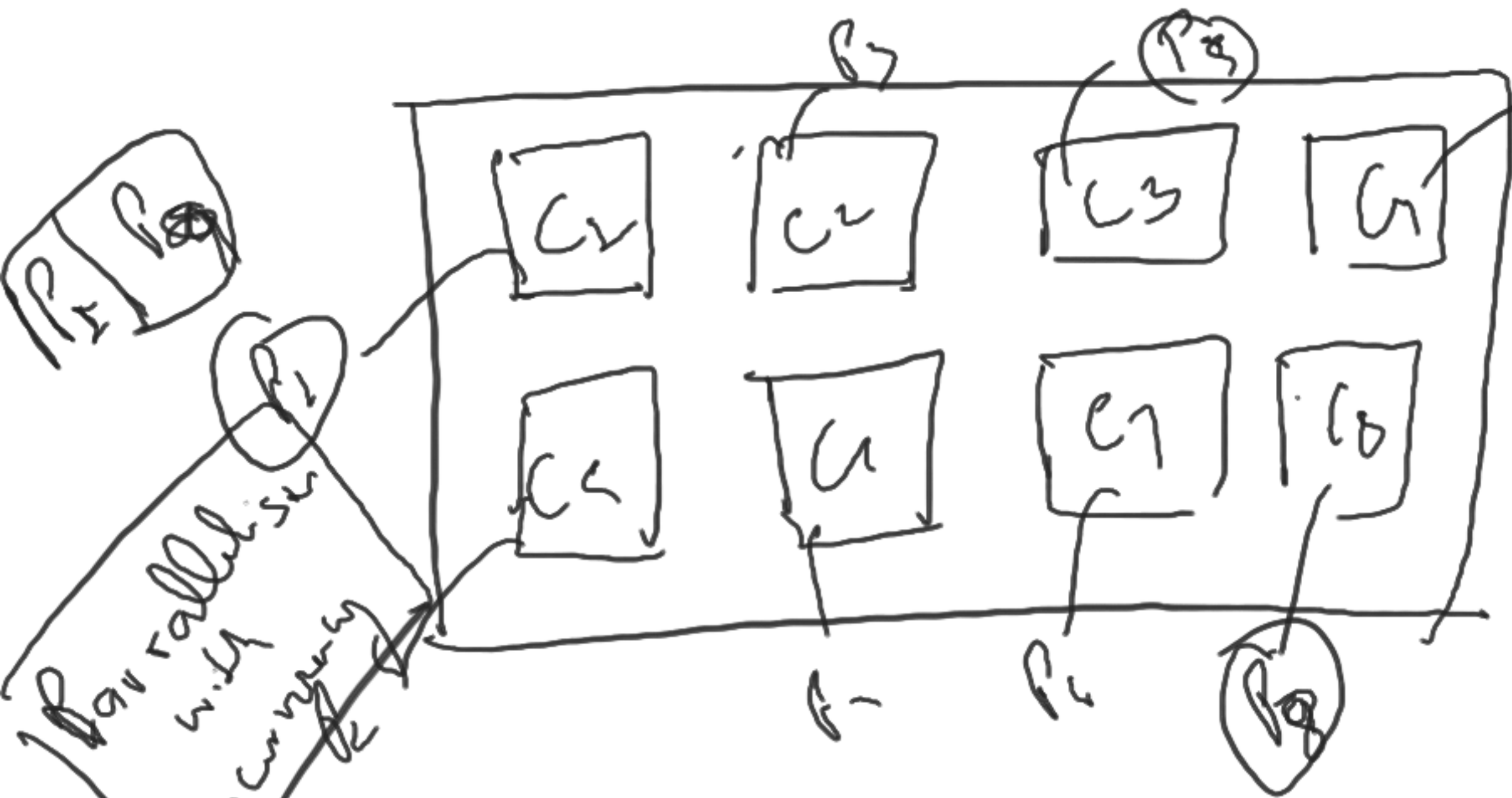


Hybrid Car System
Multi Car System

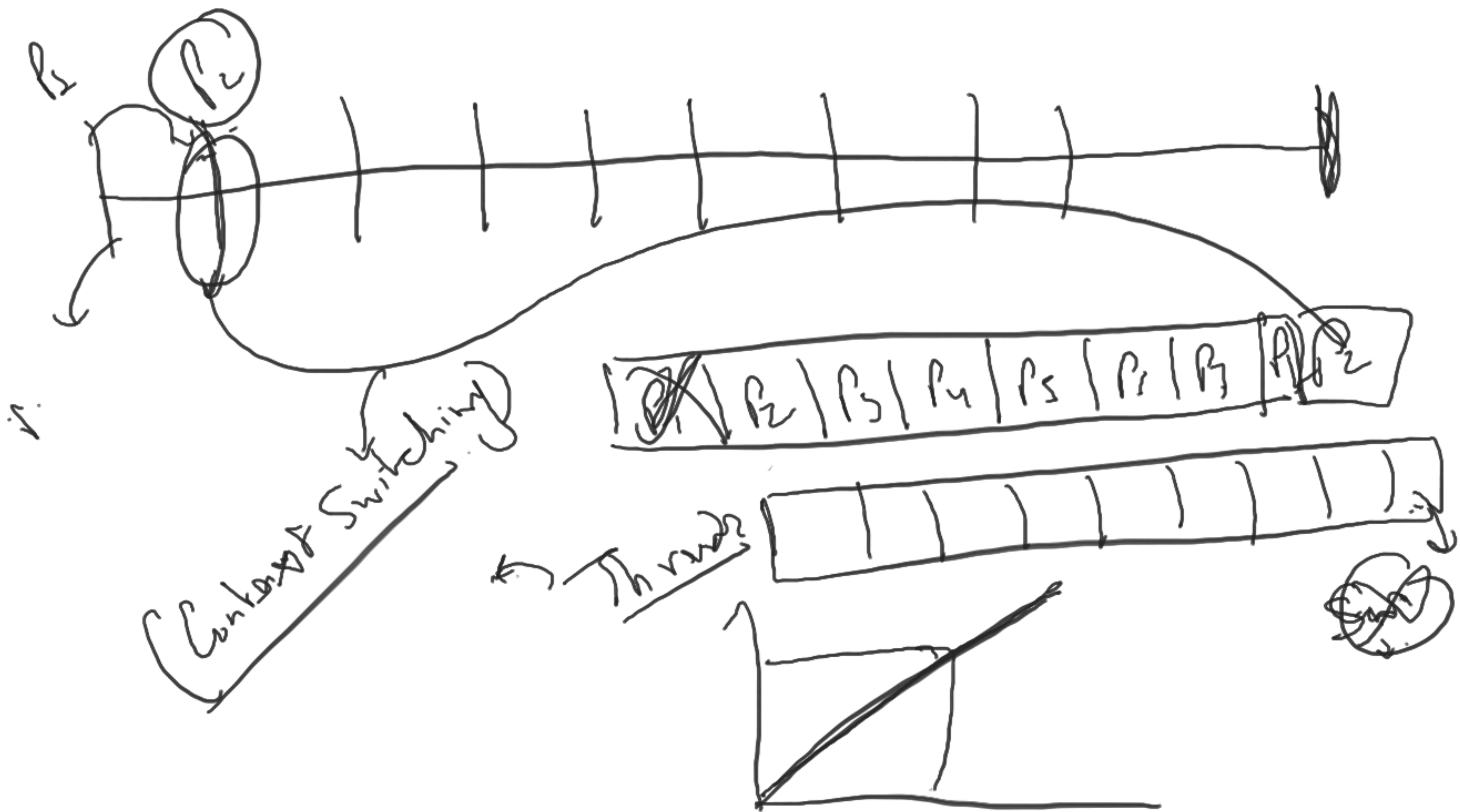
CPU Concurrent System

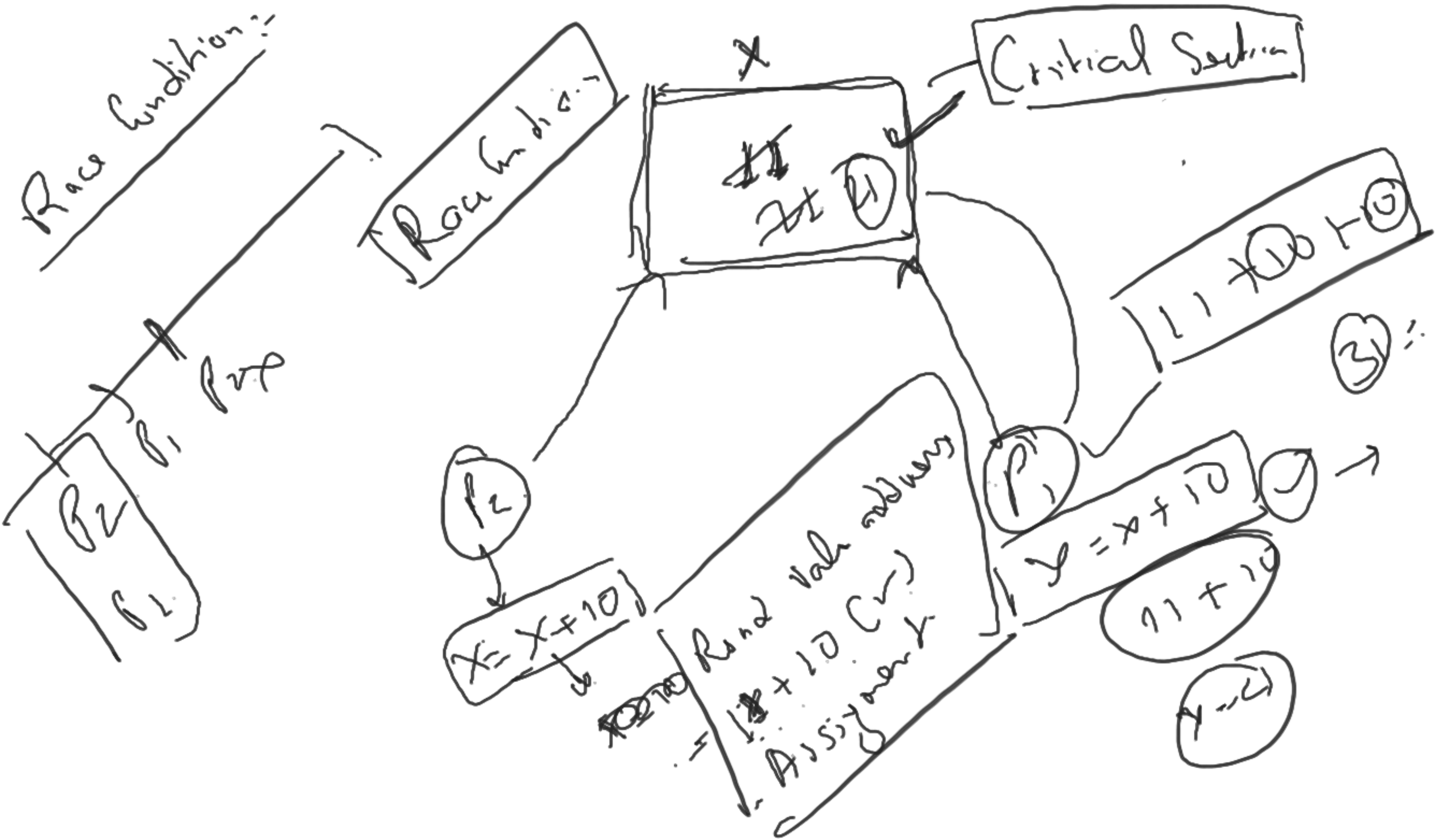


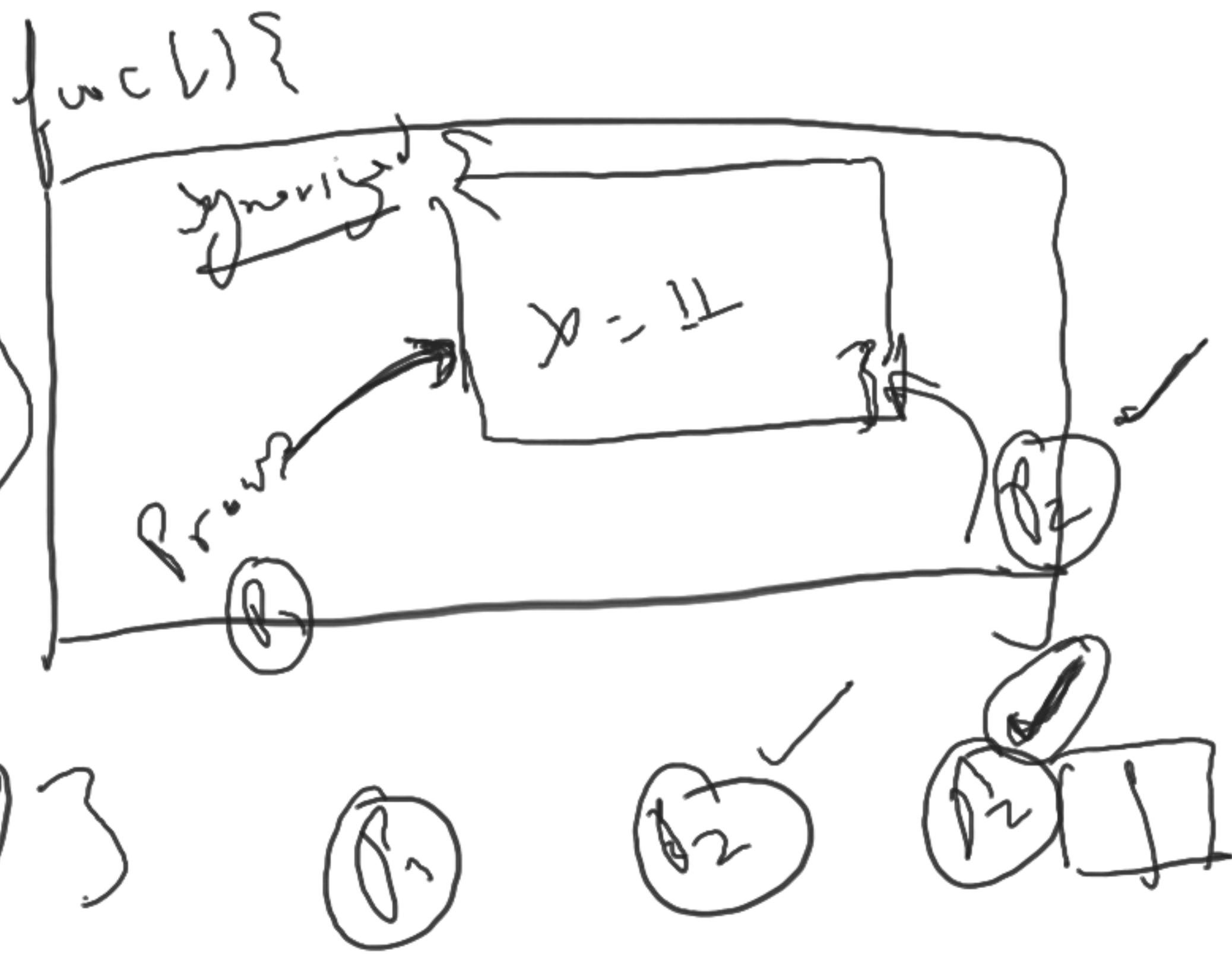
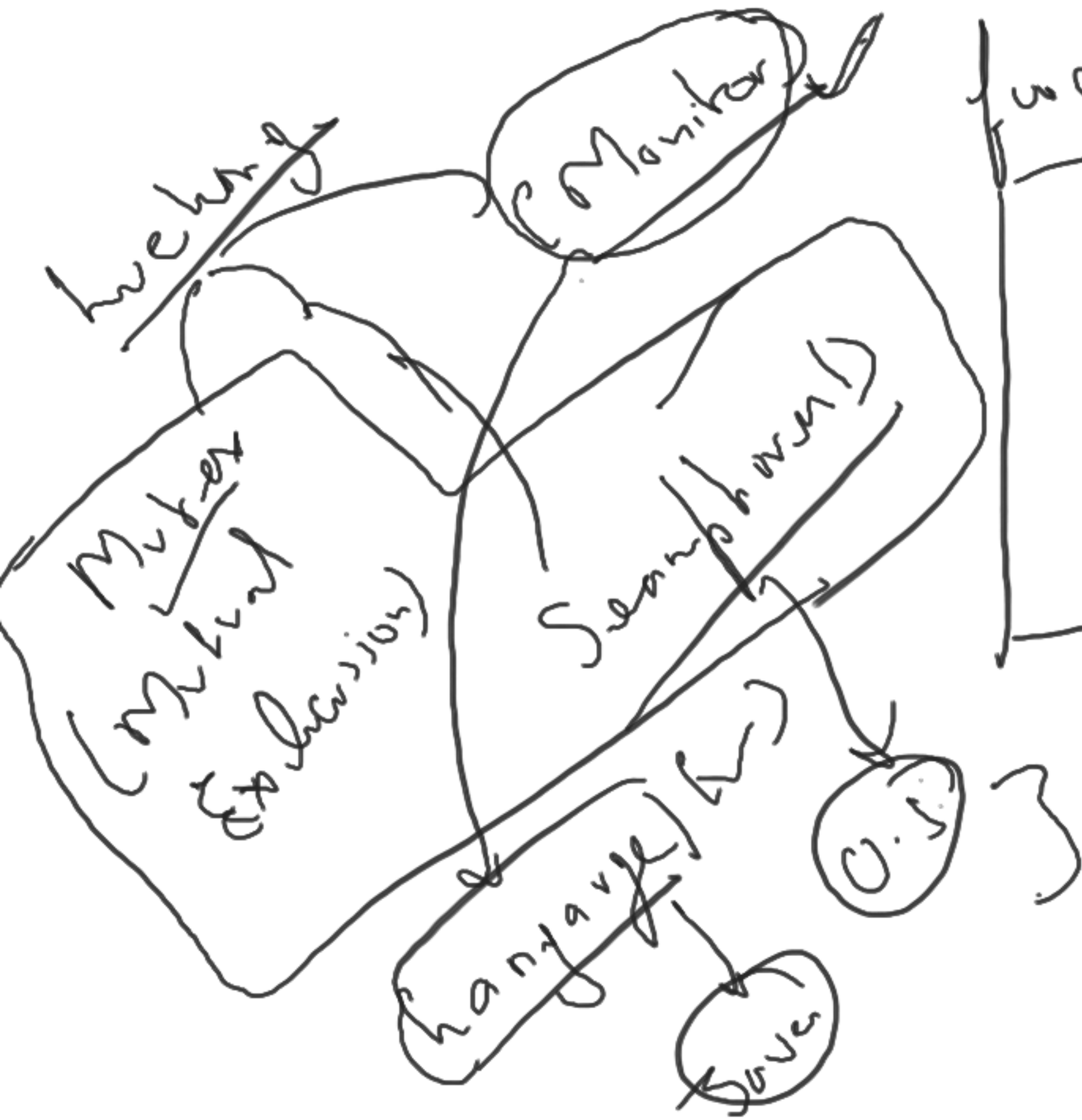


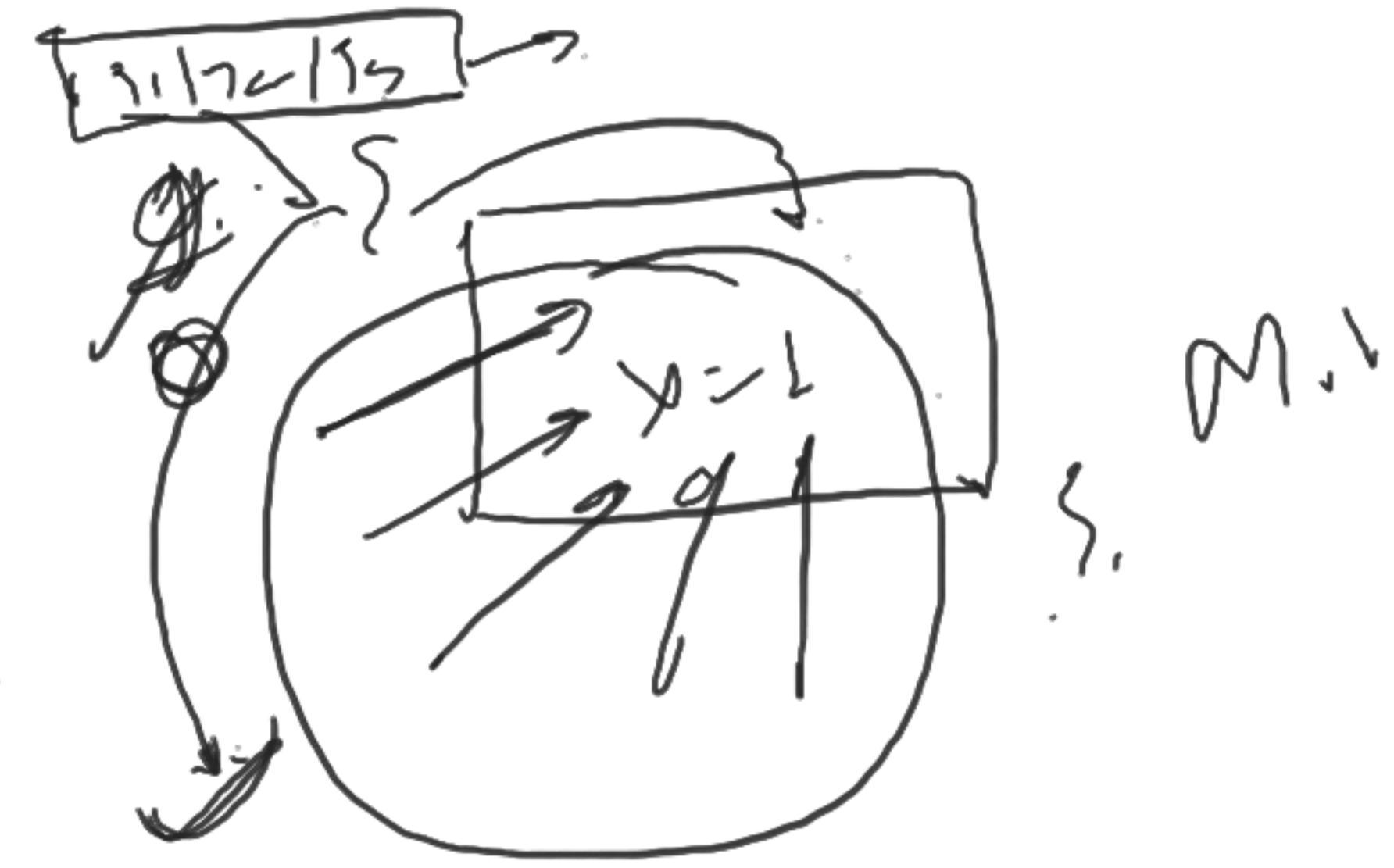
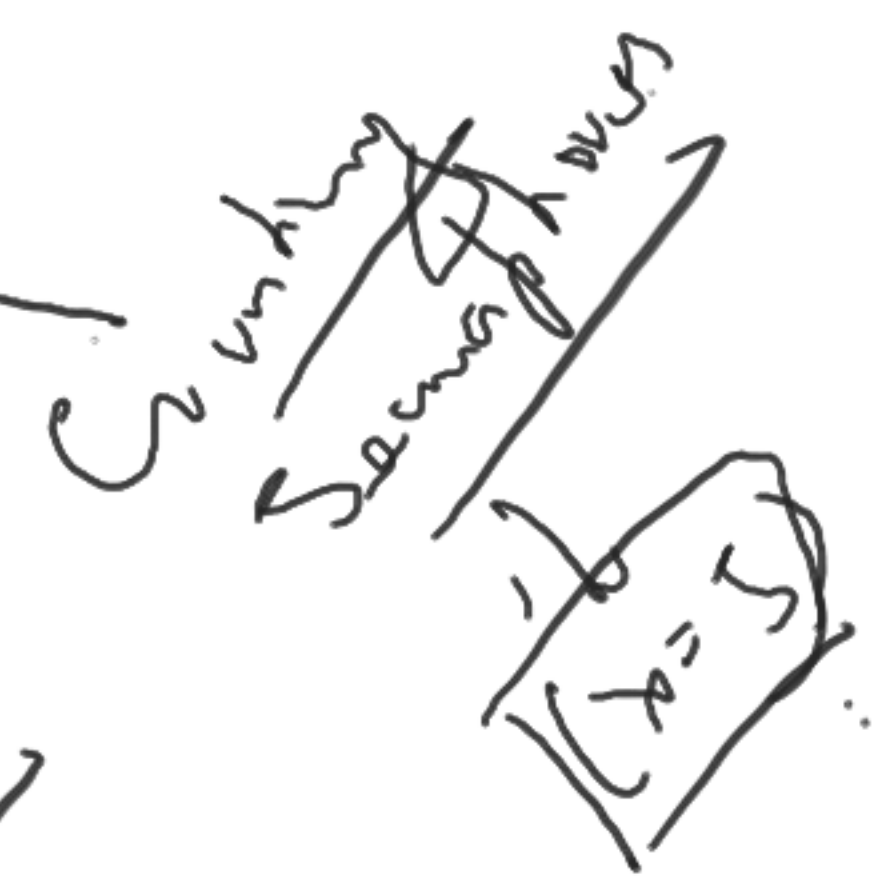
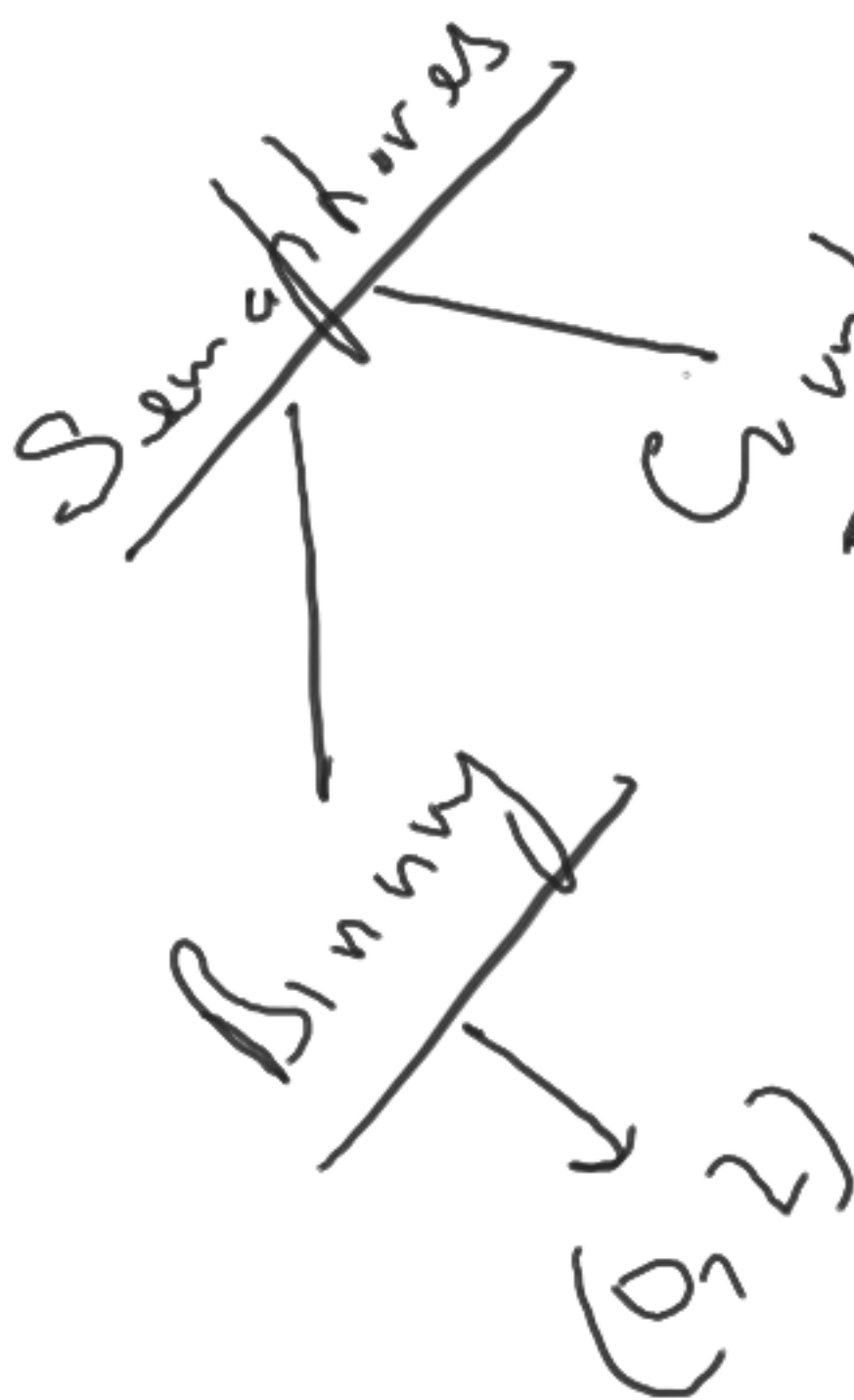


P_1	
P_2	
P_3	
P_4	
P_5	
P_6	
P_7	
P_8	
P_9	







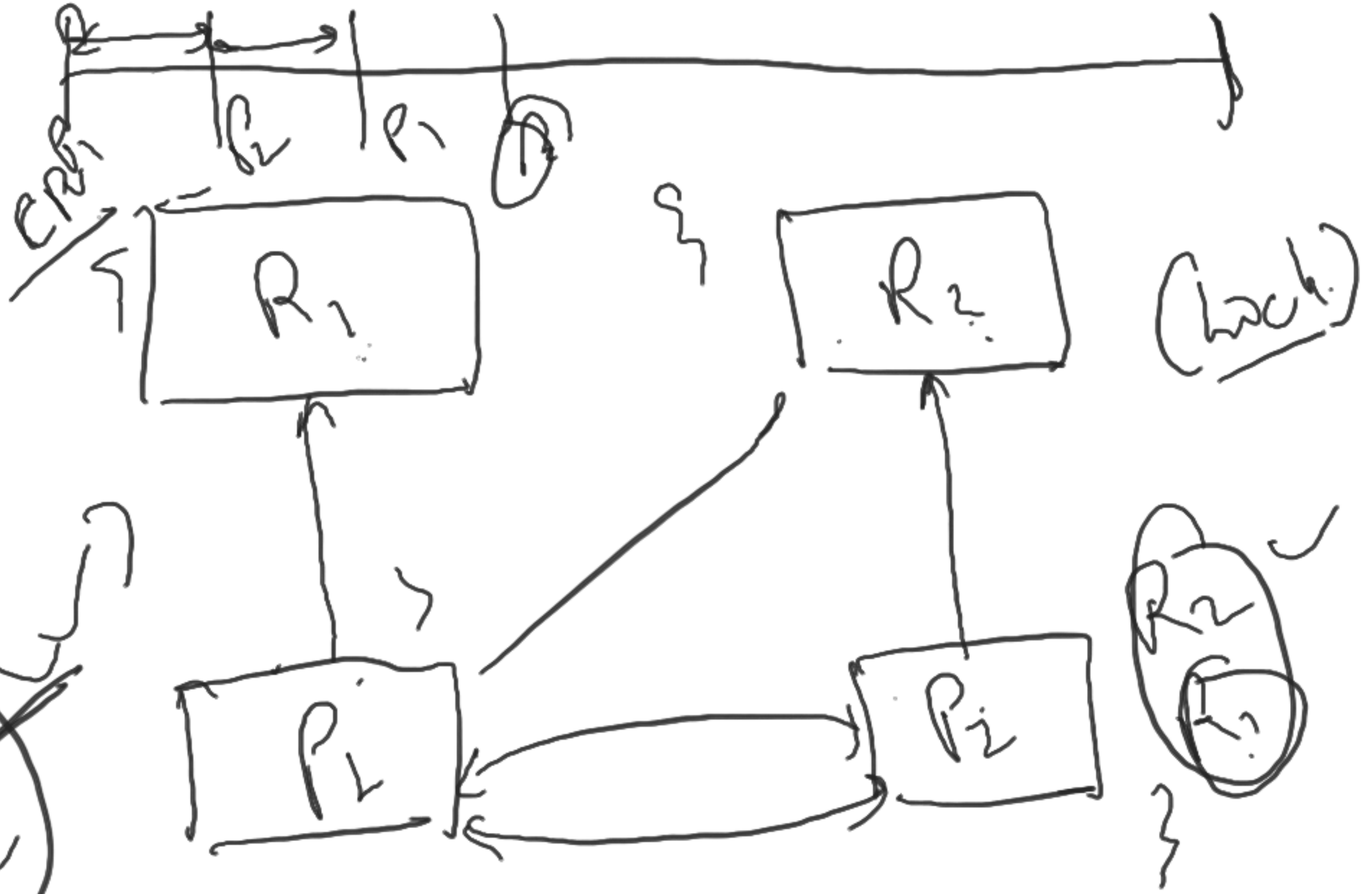


Deadlock

Starvation



Deadlock

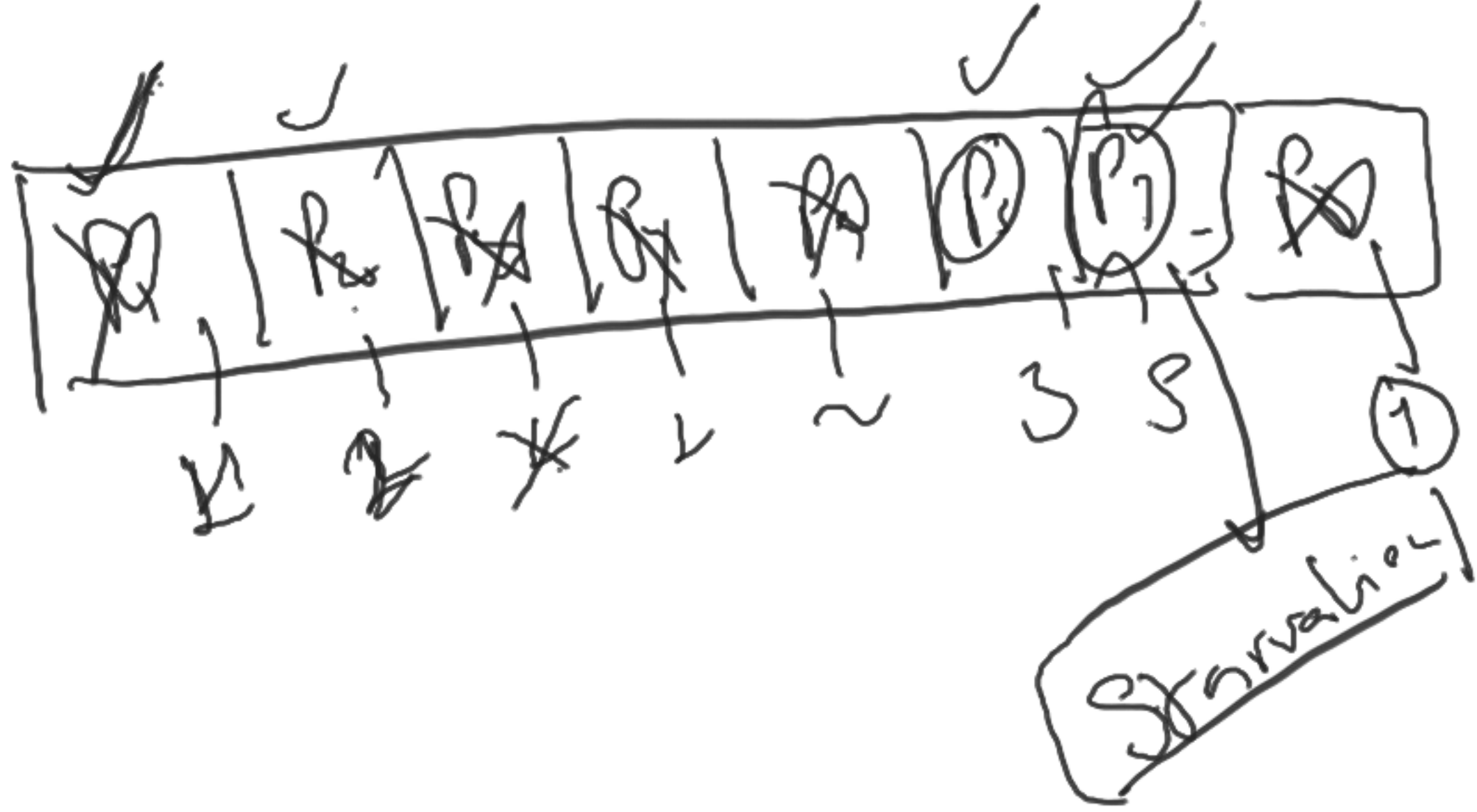
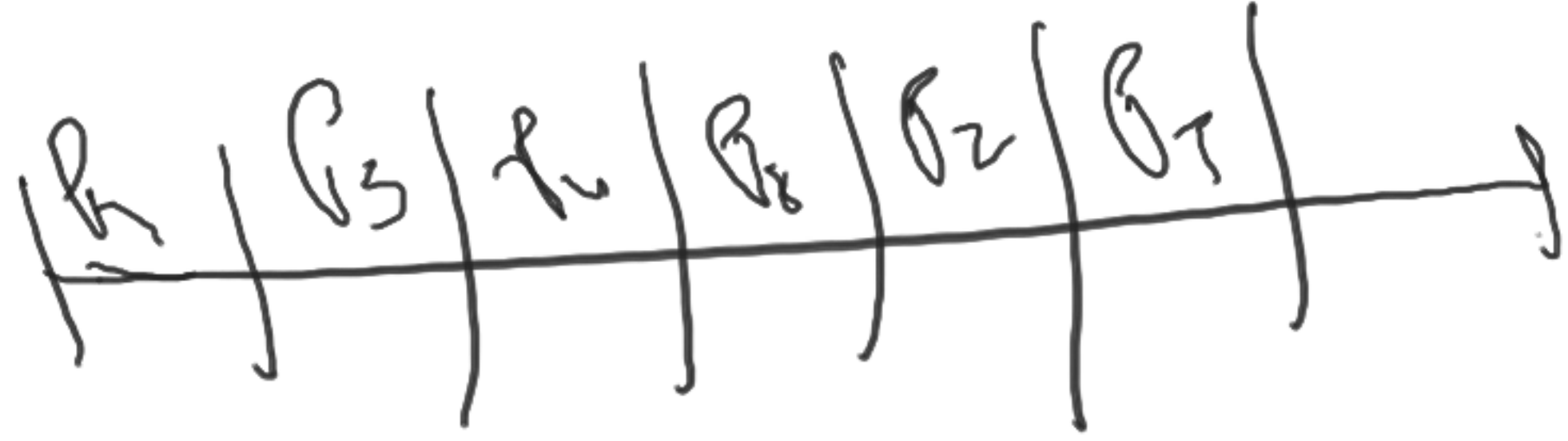


Starvation:

Round Robin
Priority Schemes

ISRO

2-2
1-1



Tyhead
System Design

18:35 p.m. 151



① → results are returning

② → Content which is search in let our word.

③ → ① - ③ ~~let~~

④ Needs to be updated

Non-F.R.

① Minimal Lagging.

② Available.

③