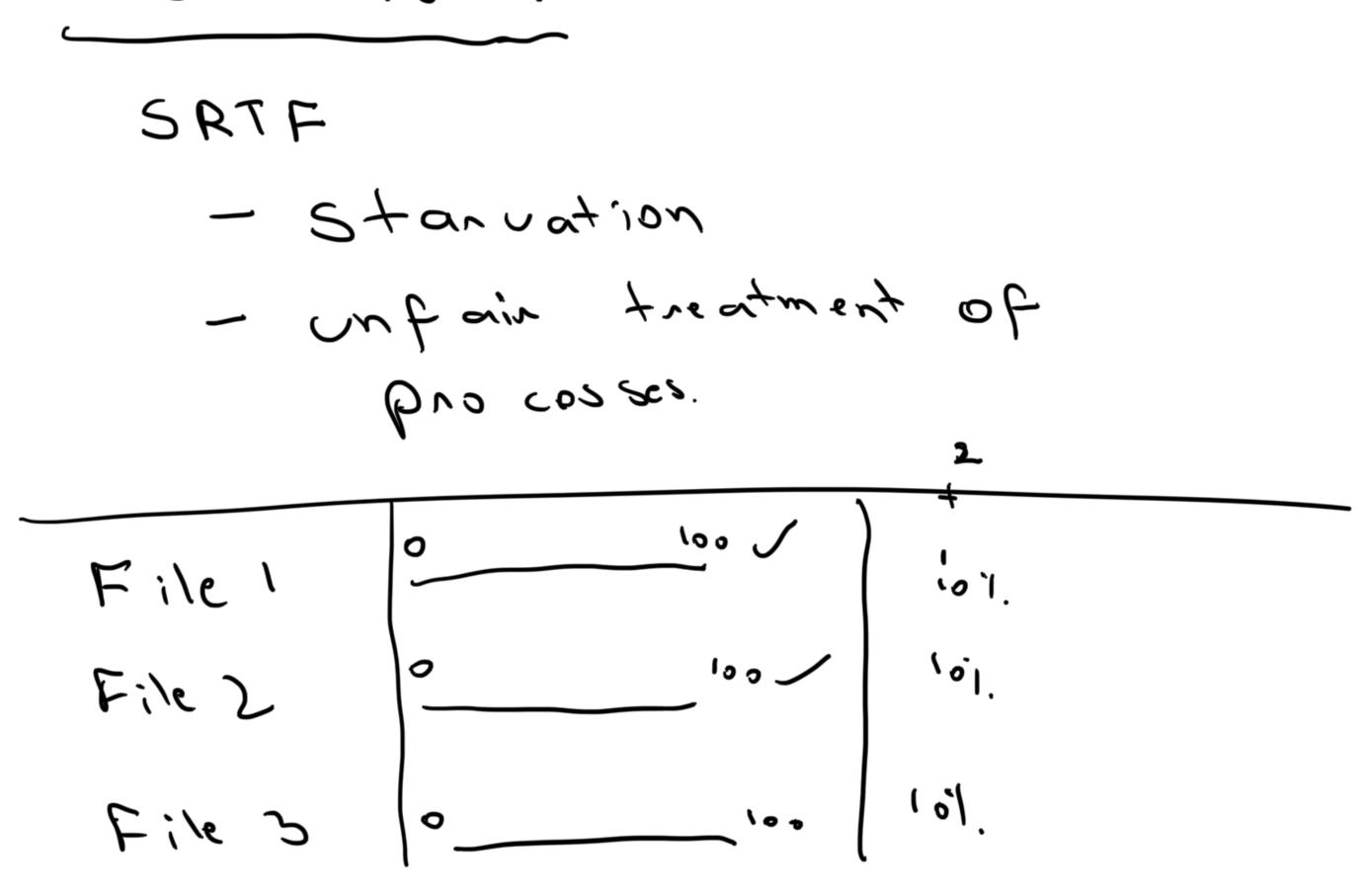
OS - Round Robin and threads

(D) To implement FCFS | Assn 1 a Tie Breden (D) Round Robin SA | Assn 2 - RR (3) Threads -> What are threads) -> Single US Multicone -> Concurrency vs Pan allel ism \rightarrow Im plement ation using threads.

Rand him



T

NOUND FOUN

$$\frac{PI PL PS}{Lange with time}$$

$$\frac{PI PL PS}{Lange with time}$$

$$\frac{PI OS}{P2 - 5S}$$

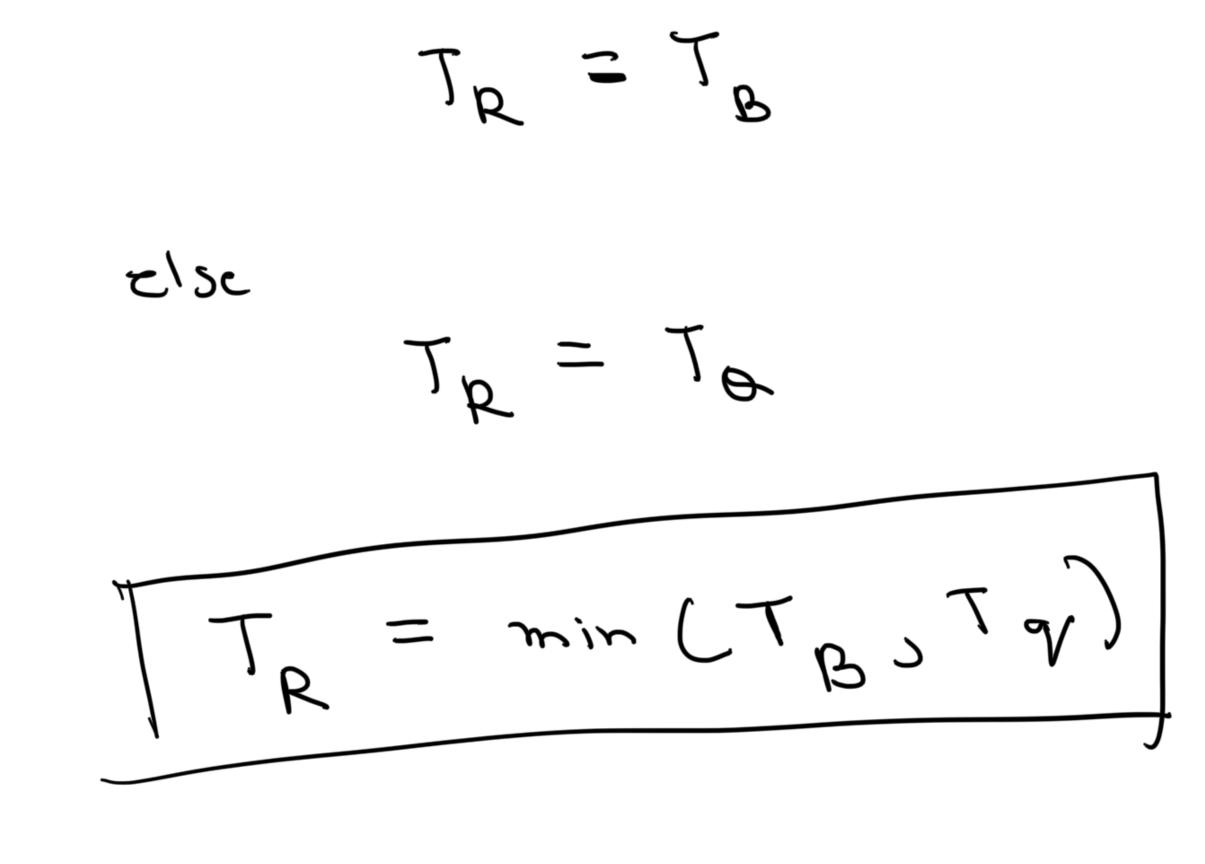
$$\frac{P3}{P3} - \frac{105}{105}$$

$$\frac{P3}{P3} - \frac{105}{P3}$$

- bunst time - time q 6 \mathbf{G}

 $P_1 - (13) = \sqrt{-7} (23)$ $P_2 - 35 = \sqrt{-7} (23)$ P3-45

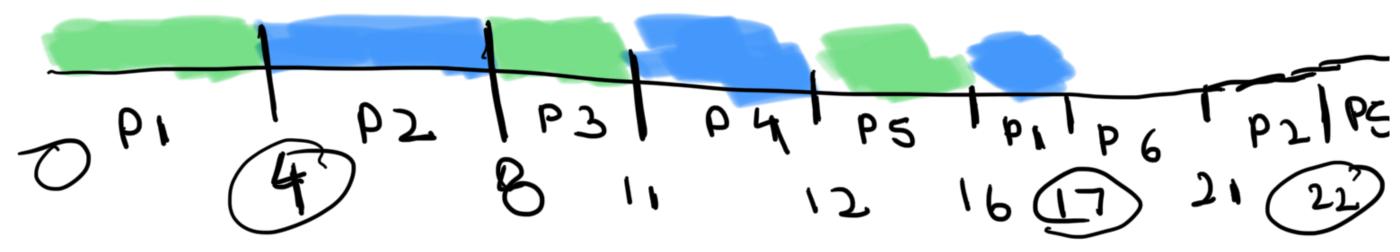
if TB < Ta



Algorithm:

(D) IP no process is run hing, pick the next process from Ready Q (2) Process runs for min (TBJ Ta) Pause running process & pick (と) the next process from the Q. (G) Repeat until no process is left

Scalen Topics Amival Bunst BT arg P2 tor VP3)_ P4 3 95 PG



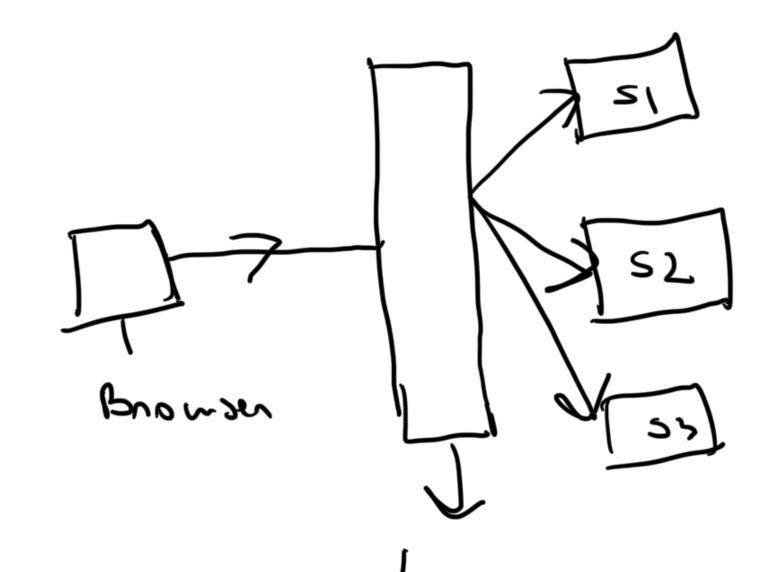
- TB not needed A ssi gn mont -II -> Implement Roundrobin

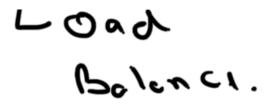
Disadvanta ges (1) A lot of context suitching (2) Low throughout (3) Prionity

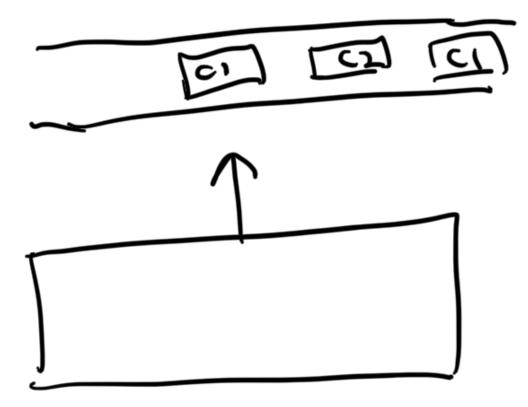
[[=_] || o s]

 \mathbf{S} with bigher Toy RR -> FCFS

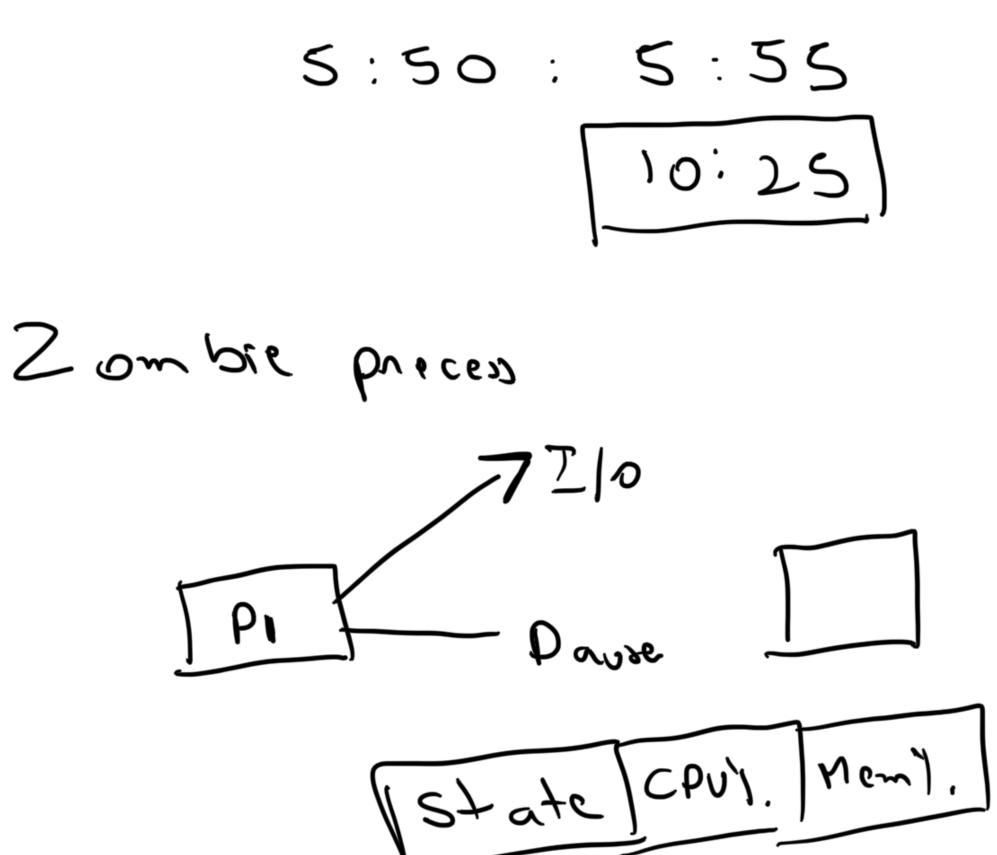
Load balances





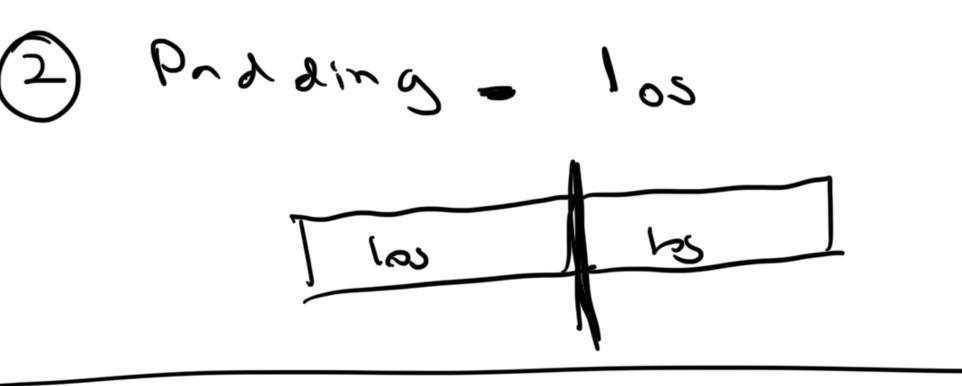


BREAK



E stimati on

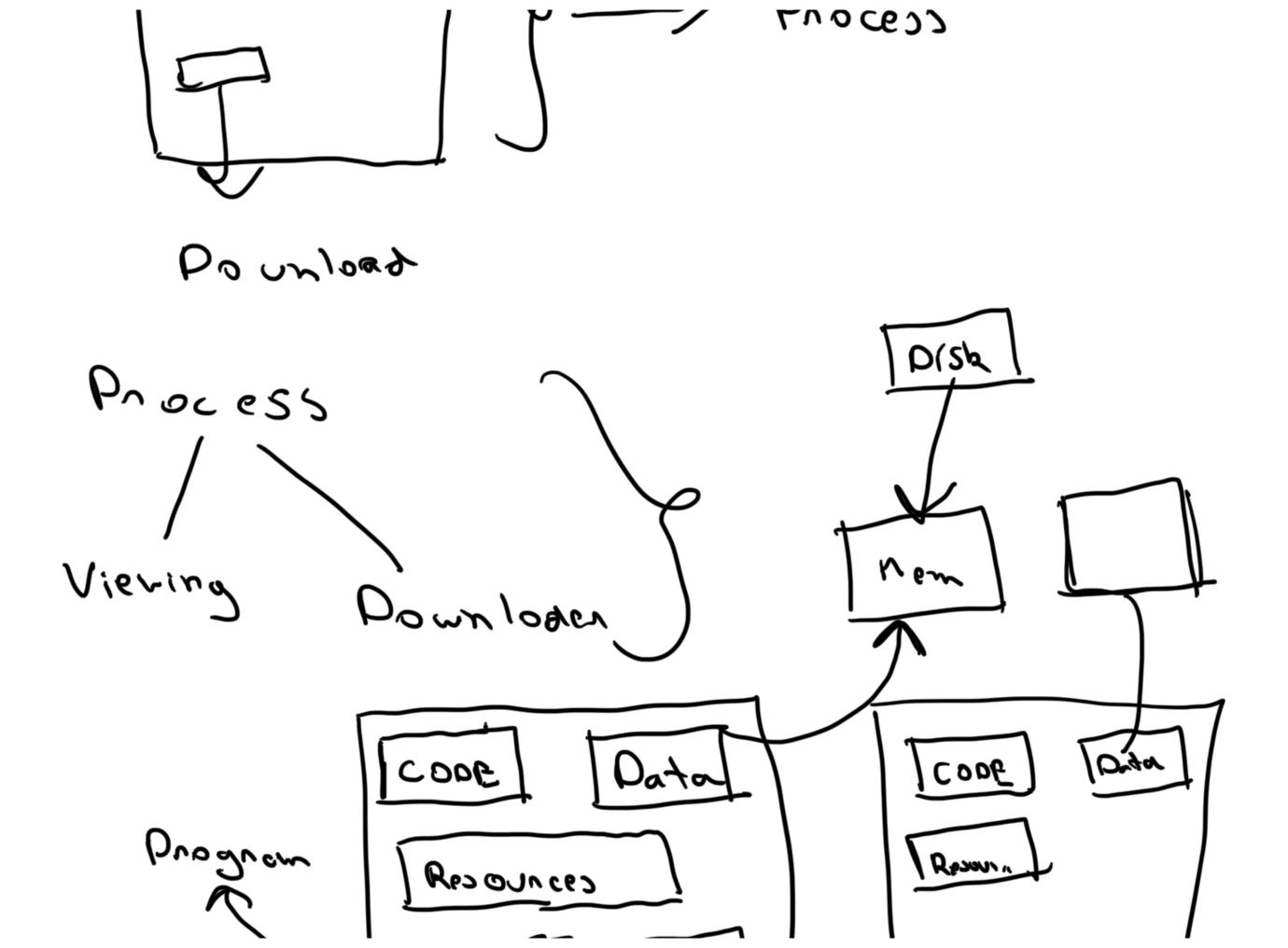
- past then ds



Threads

Light neight process -7

1.P

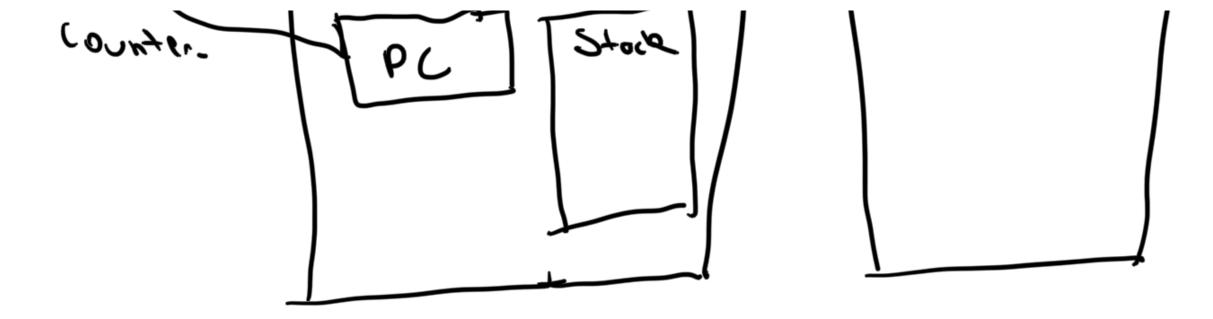




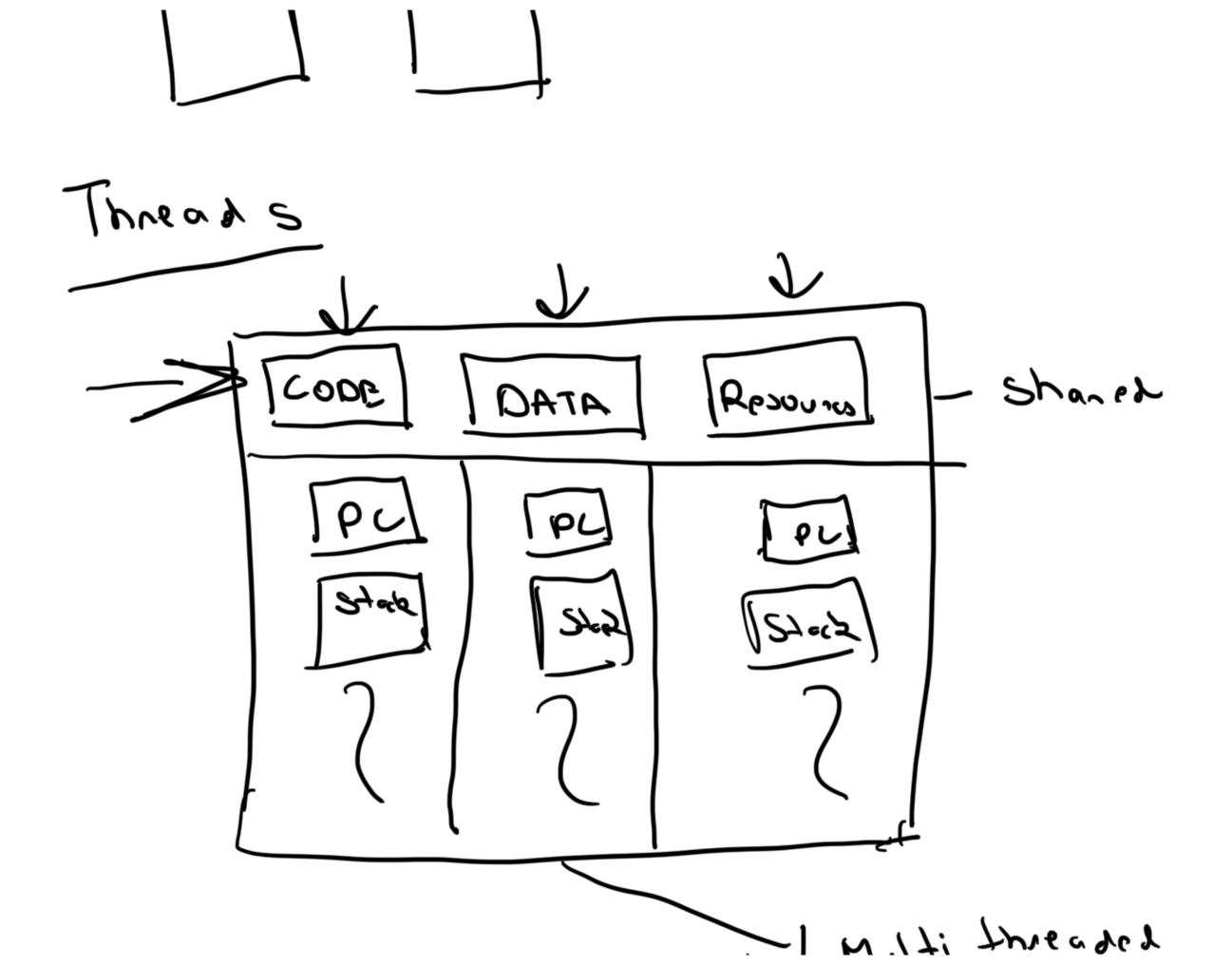


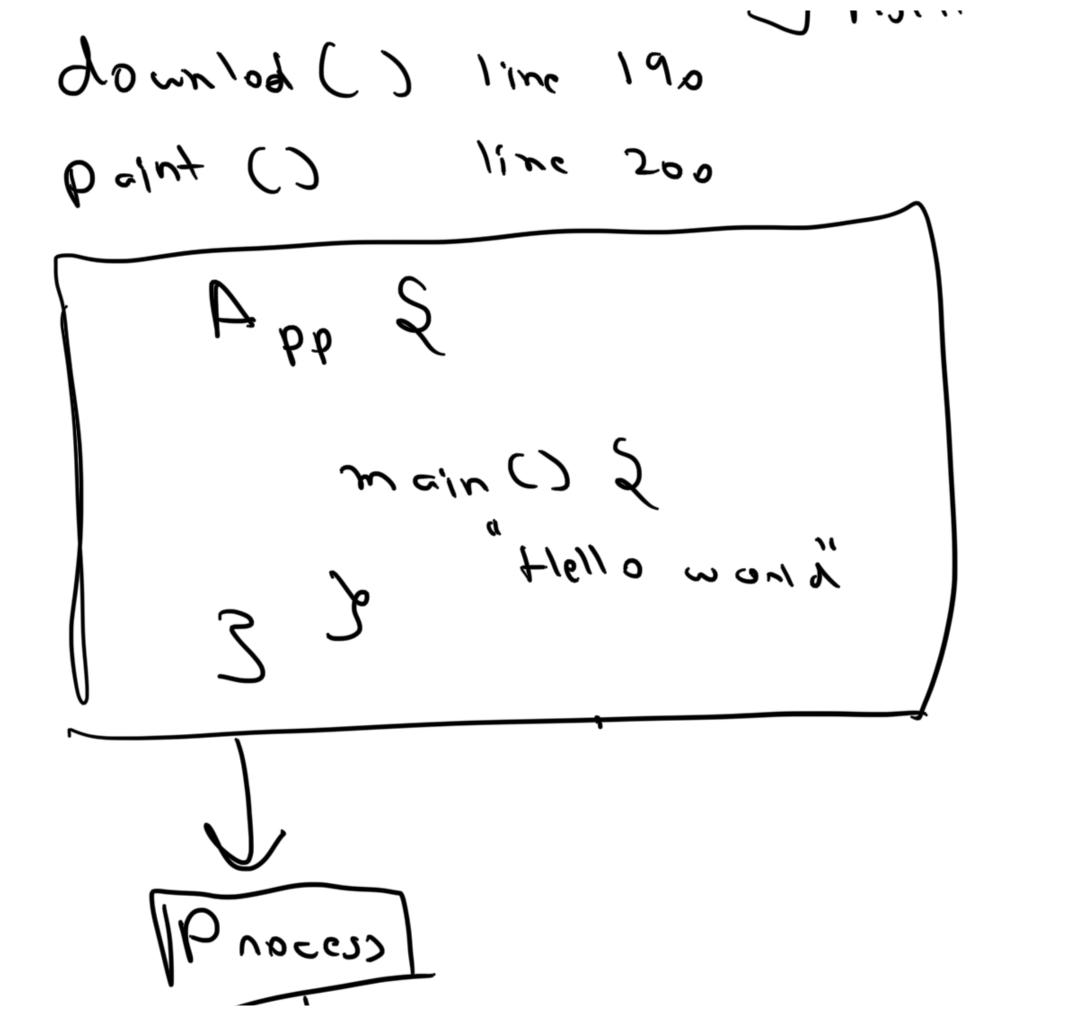
->> Less performant

Multiple processes



Function 1 2 rcin () 2 fun chion 2() Function Pro cess 1 Ilo Creating new proces takes time Contest suitching is show

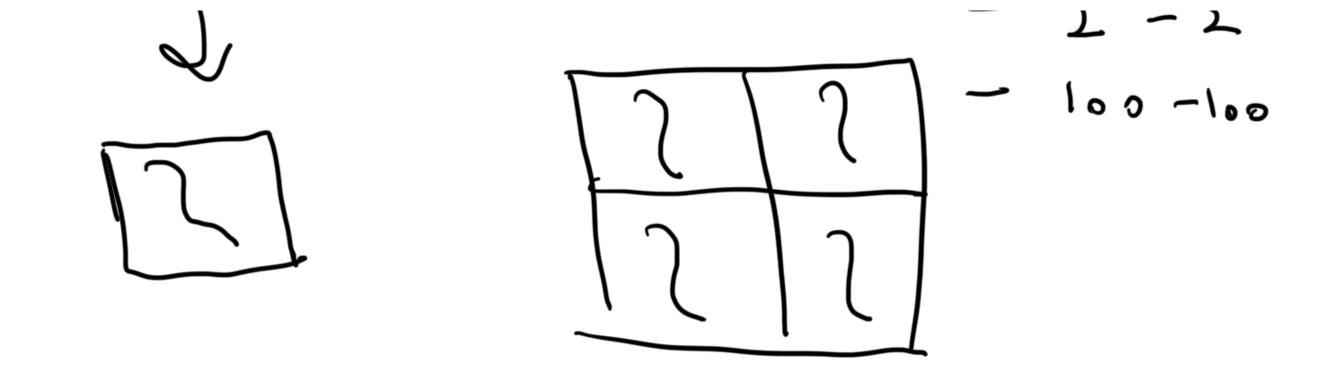


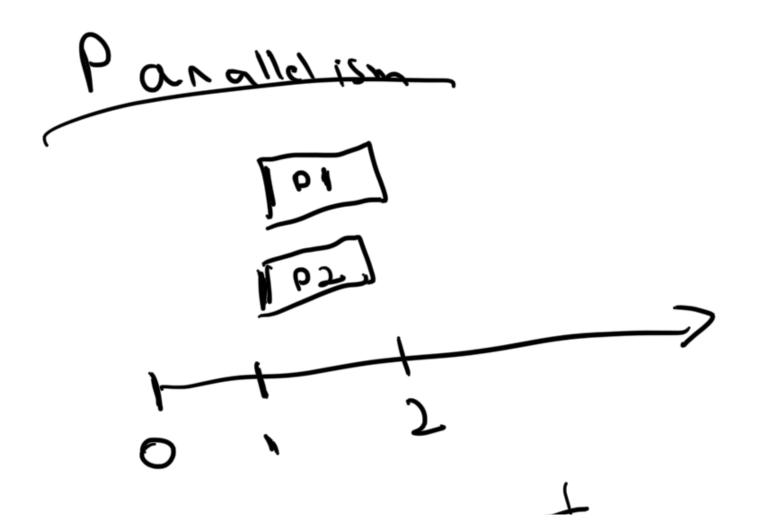


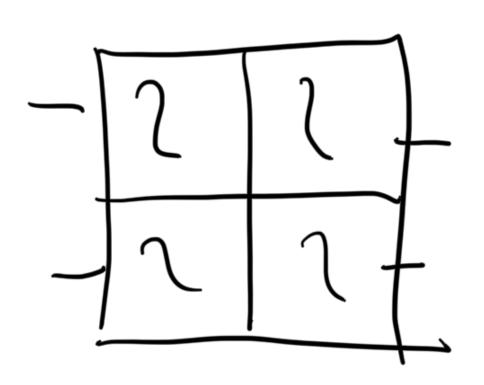


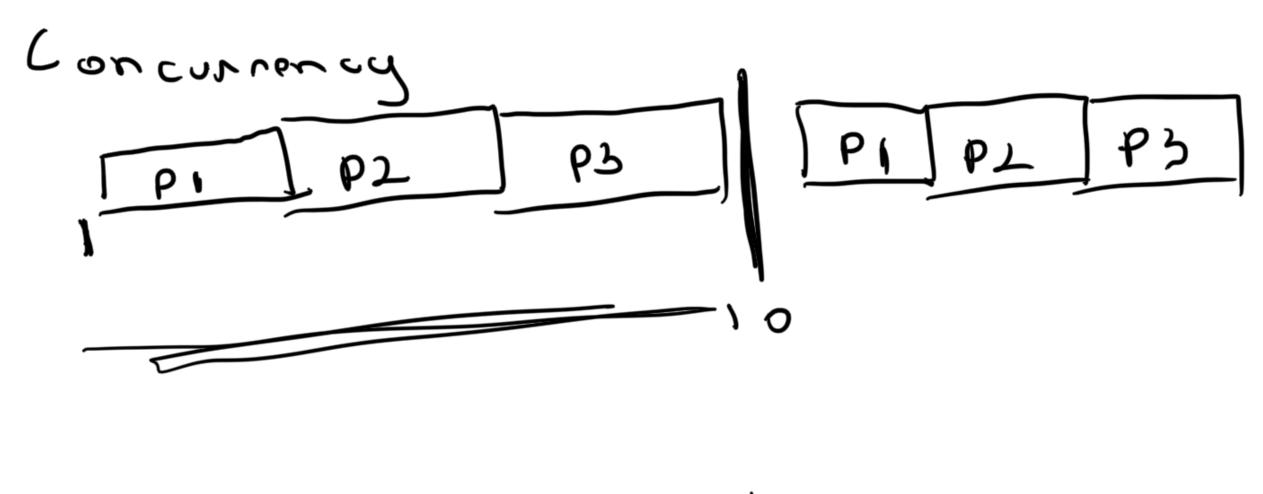
* Thread is the final Unit of execution of a CPU

Unicone multicone — 16 = 16









At time to I can have progress

Threads

-> Unit of CPU execution

-> Light weight -> shared memory -7 multiple tasks in some Pro cess Web Browsen

(1) Create anew thread Chrome -> creates a new 2) Process for each tob -> performance -> mency consumption

Nozilla Fine for - 4 process. Ъ

