

Today's Agenda :-

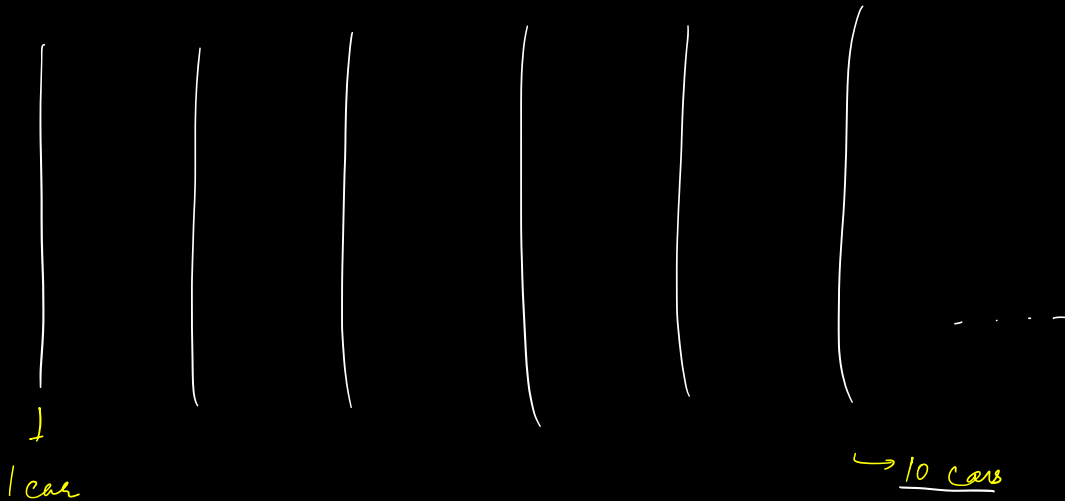
PI: Please complete all assignments asap.

- 1) Executors & Thread pools
 - 2) Callables
 - 3) Adder Subtractor (A sync problem)
-

1 to 100

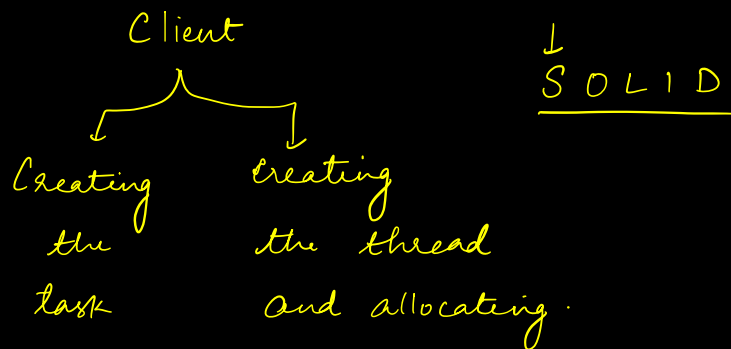
100 thread

10 prod lines 10 orders / day 11 orders

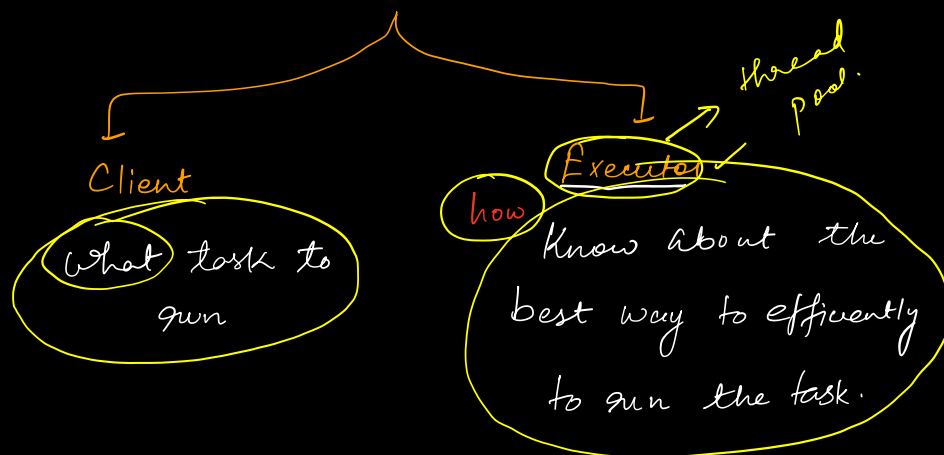


Server

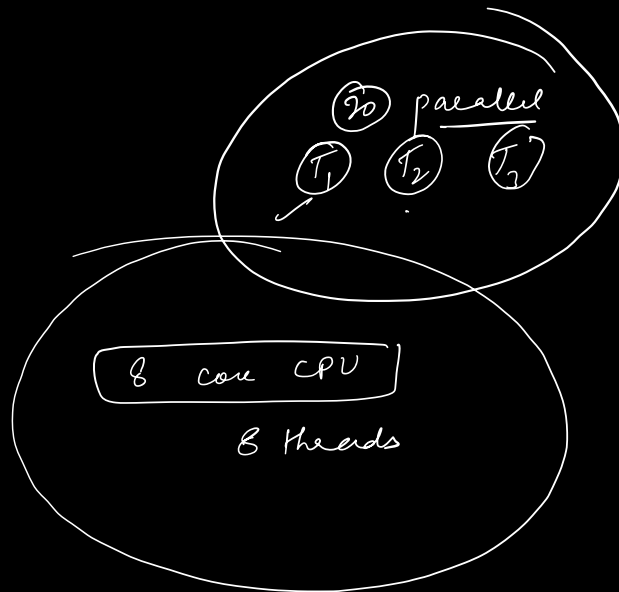
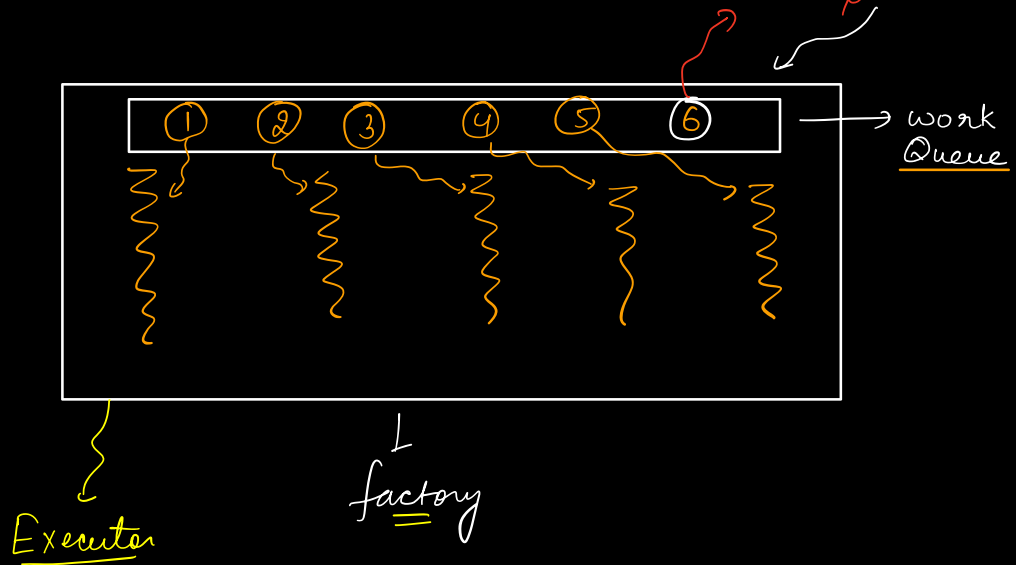
4 { 4 core CPU

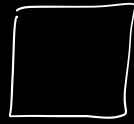


Executor framework :- Dividing the responsibility in 2 parts



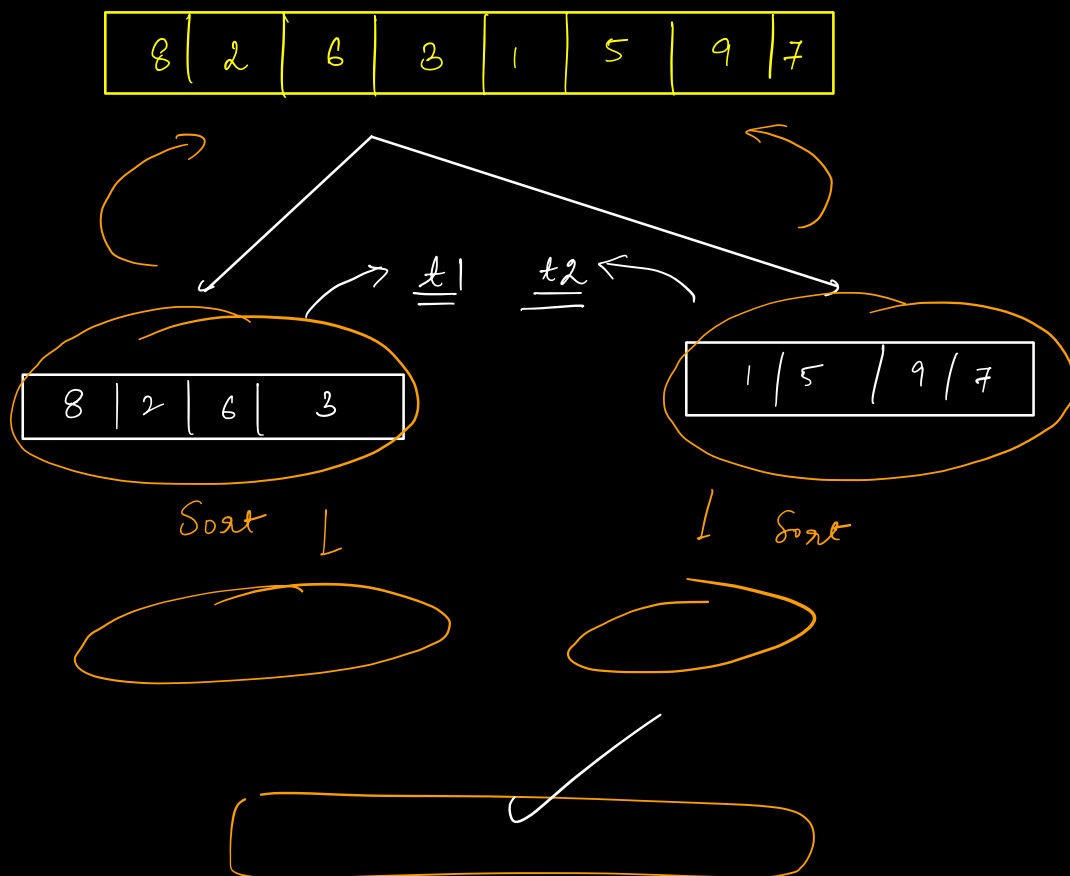
Thread pool :- (5)



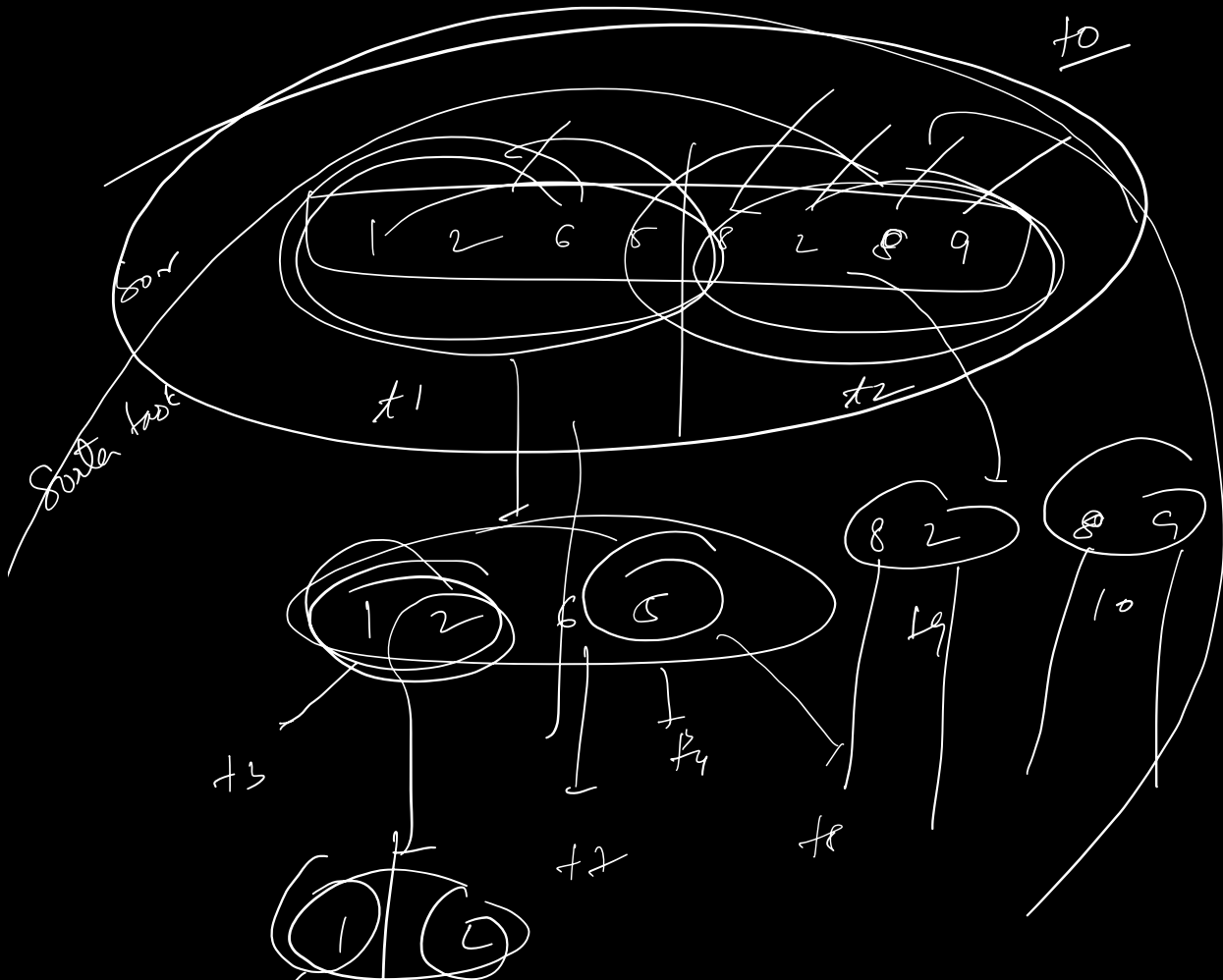
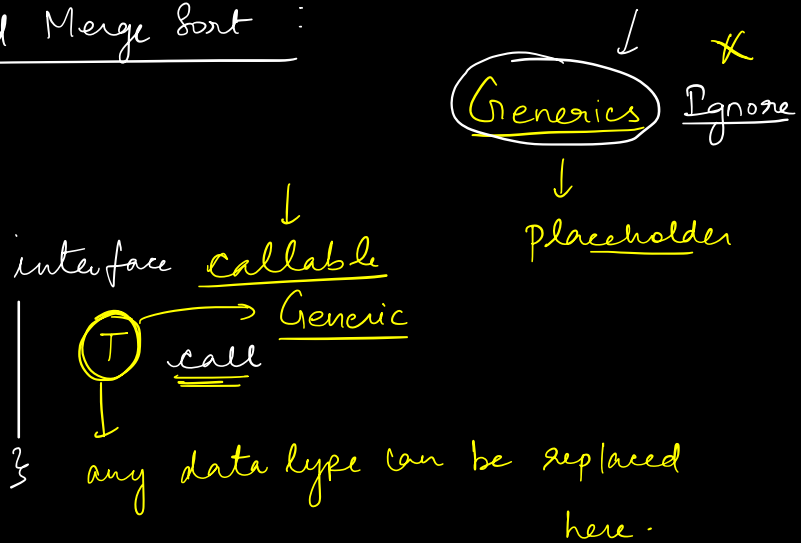


Callable = Runnable + Return the data

Merge Sort:- (Divide & Conquer)

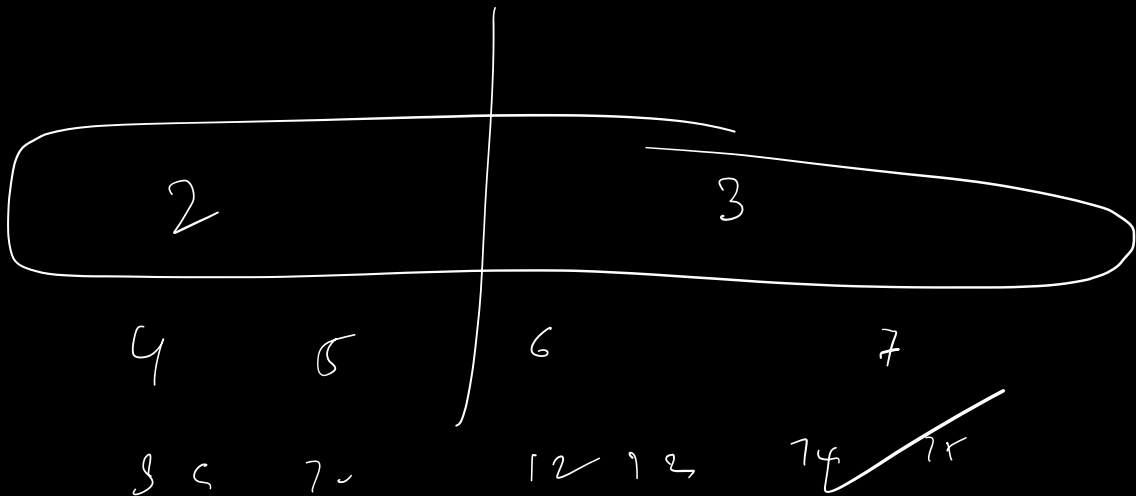


Multi threaded Merge Sort :



\swarrow
 t_5 t_6

15 threads



Fixed

Sync Problem

↳ Adder Subtractor

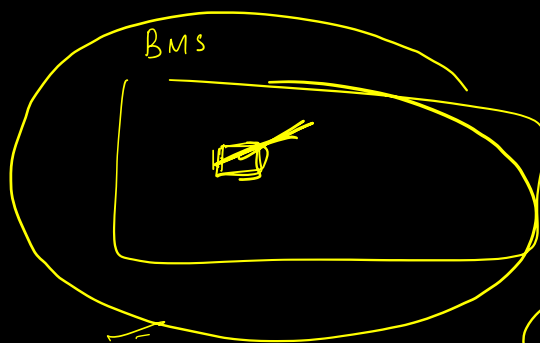
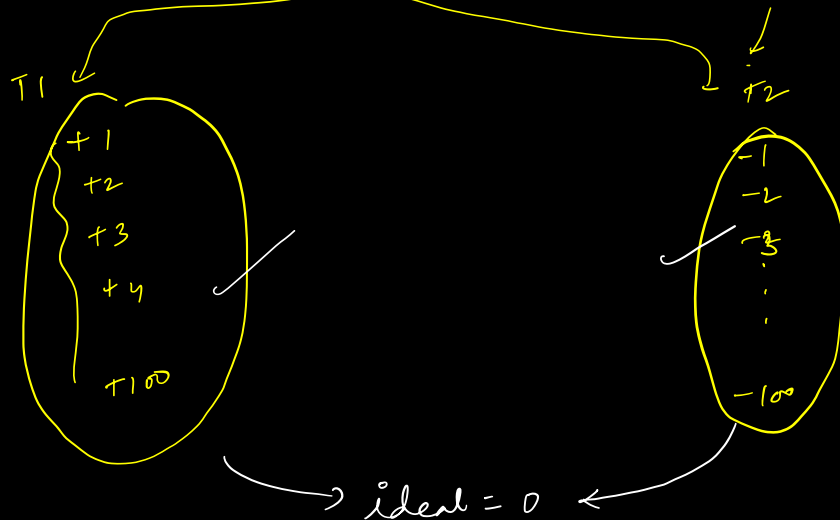
↳ Agenda for next class

8 Min

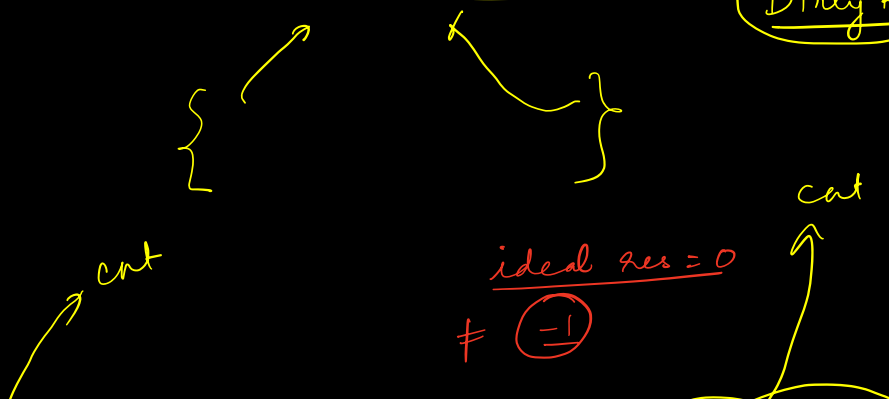
Adder Subtractor :-

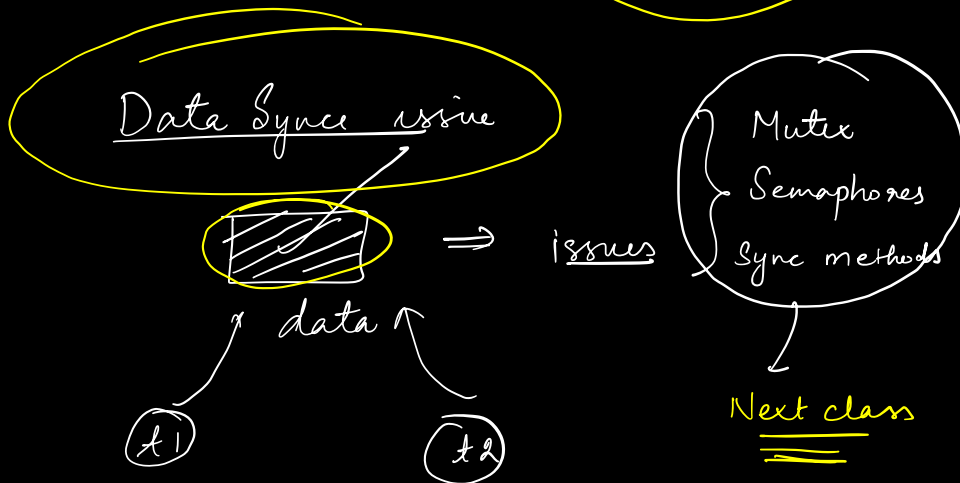
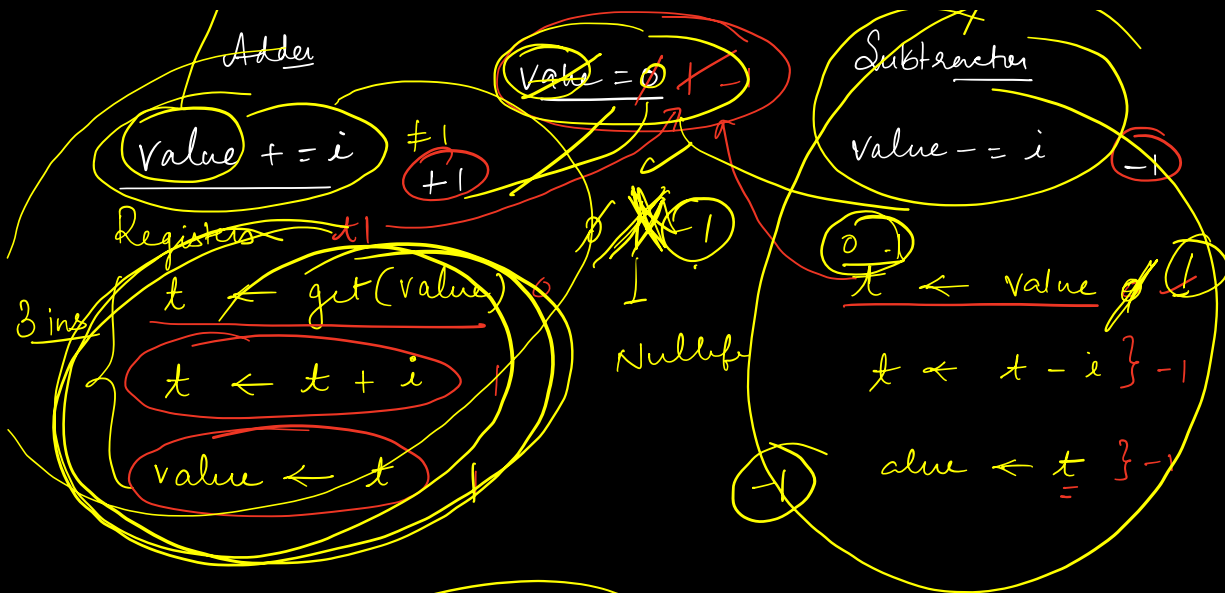
Adder \rightarrow Add 1 to 100

Subtractor \rightarrow Subtractor 1 to 100 value = 0



Dirty Read





Workers = Threads

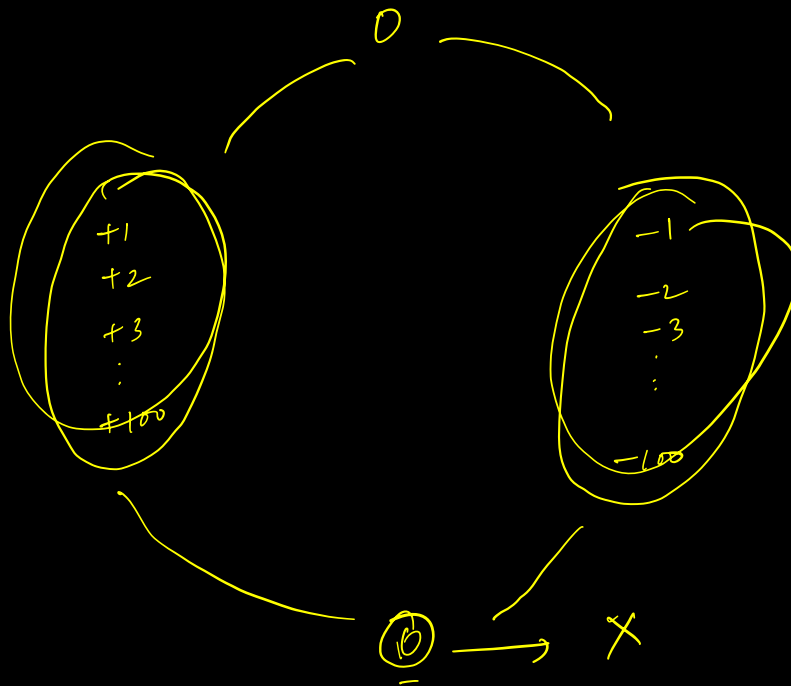
Threads

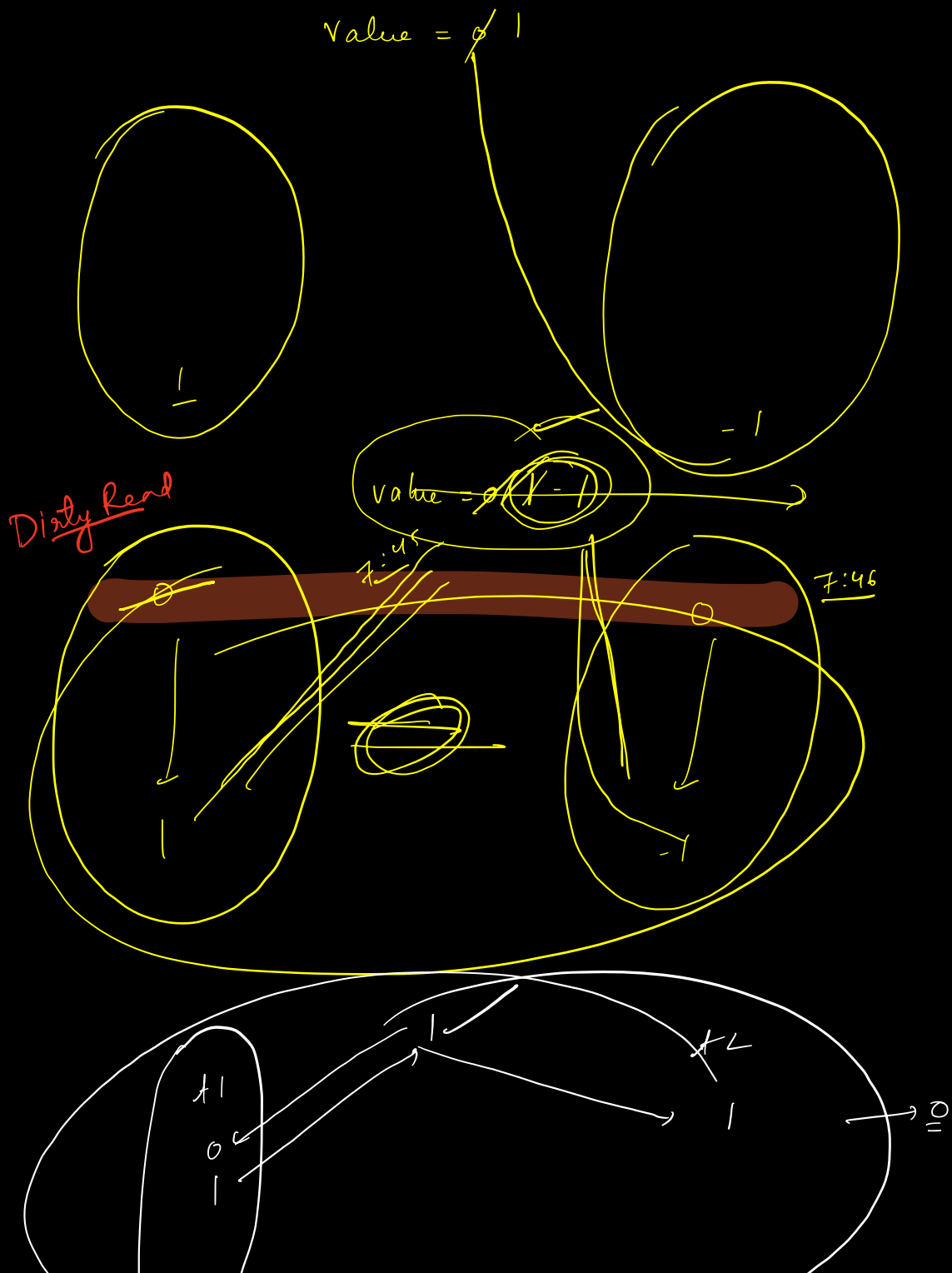
|

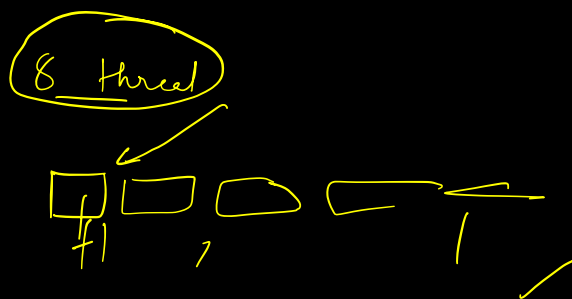
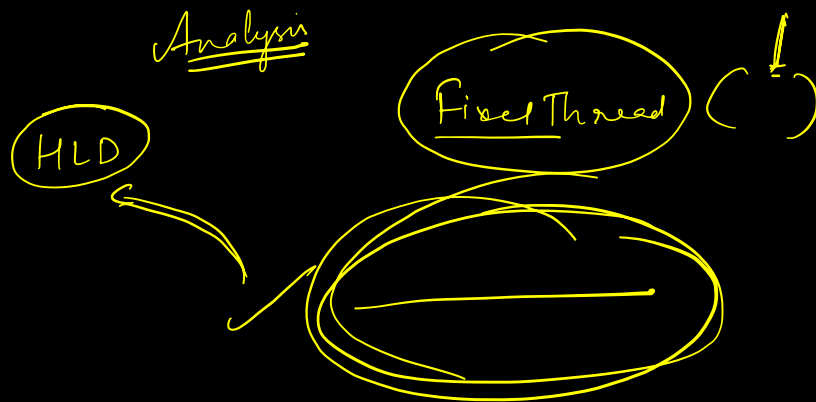
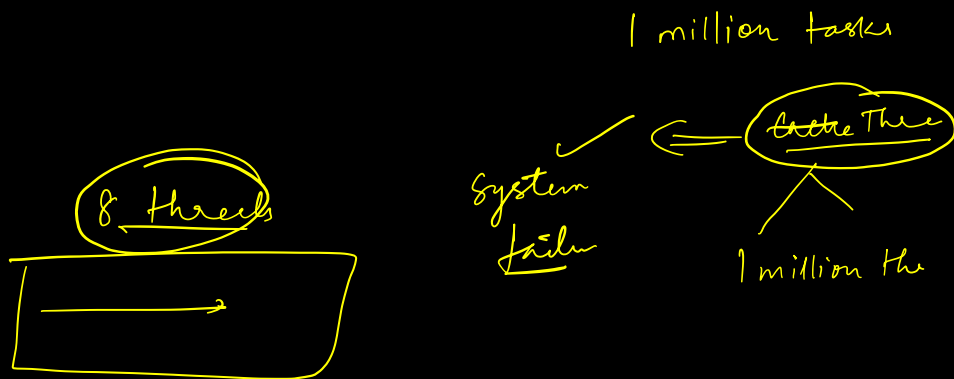
Executor Service \Rightarrow thread pool

Callable \rightarrow Merge sort

Addn | Subtractn \rightarrow sync Problem

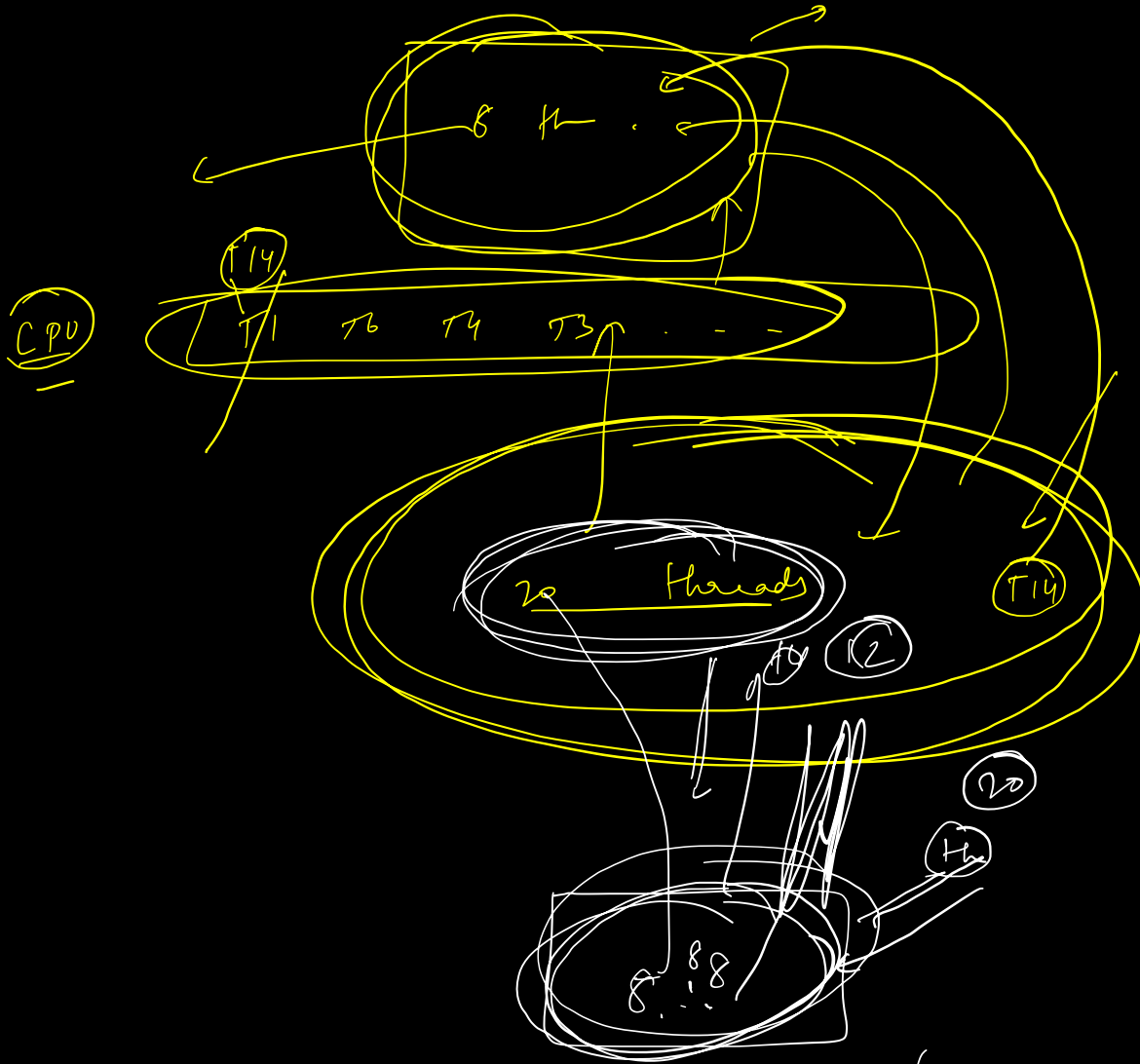






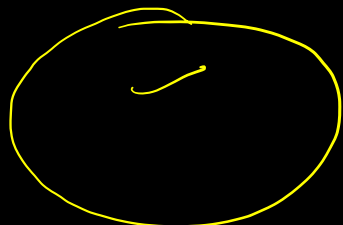
Fi (20)

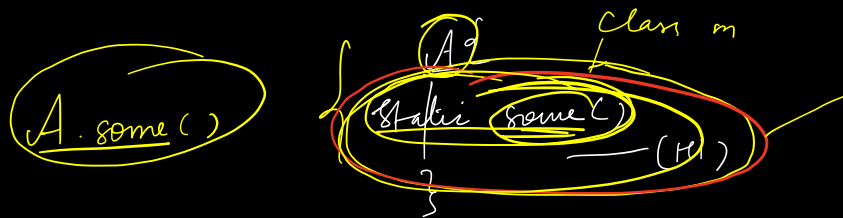




Algo { FCFS
SRTF
SFF

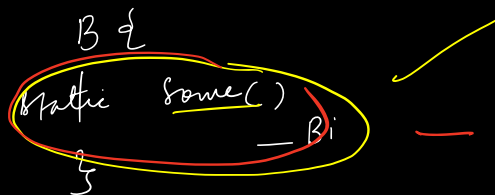
Global



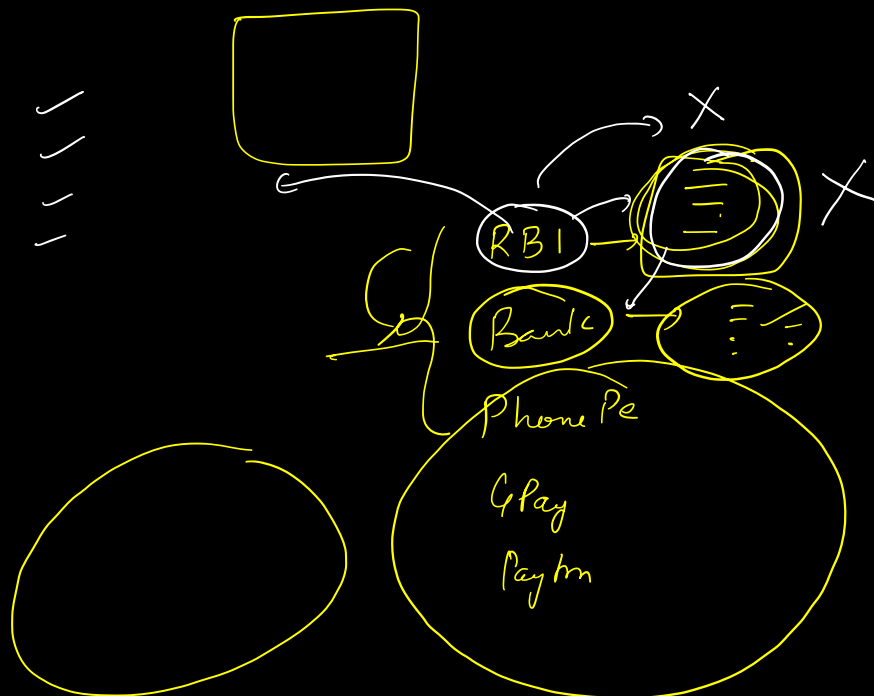


B.some()

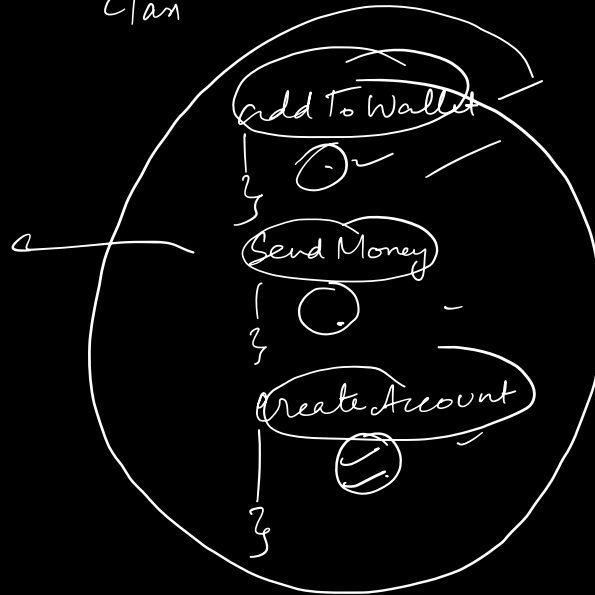
Obj | instance \simeq static



A b = new B();



class



1 hr
Pass by val
vs
Pass by ref

Tag
me

Elaborate your
doubt

do some) ✓