

Today's Agenda :-

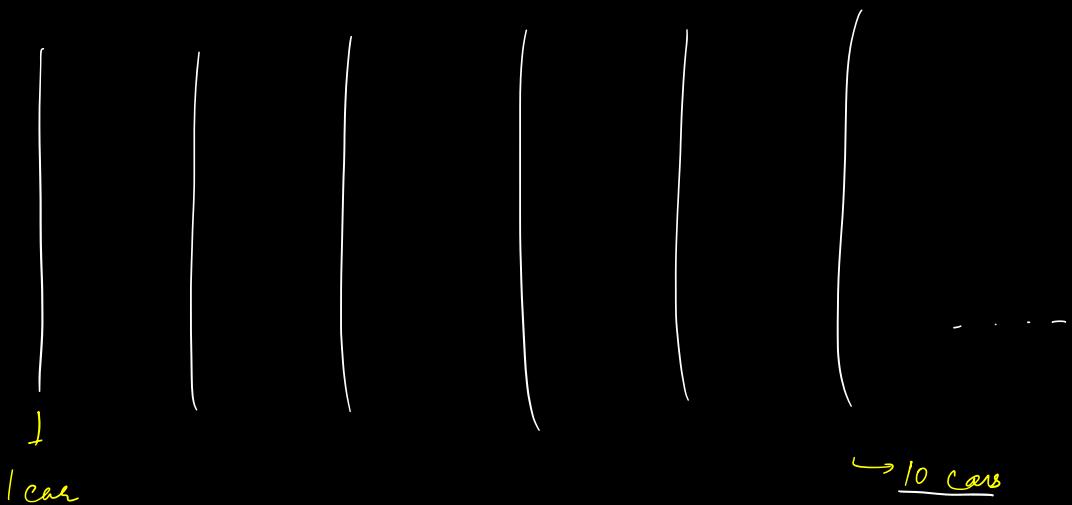
P1: Please complete all assignments arap.

- 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





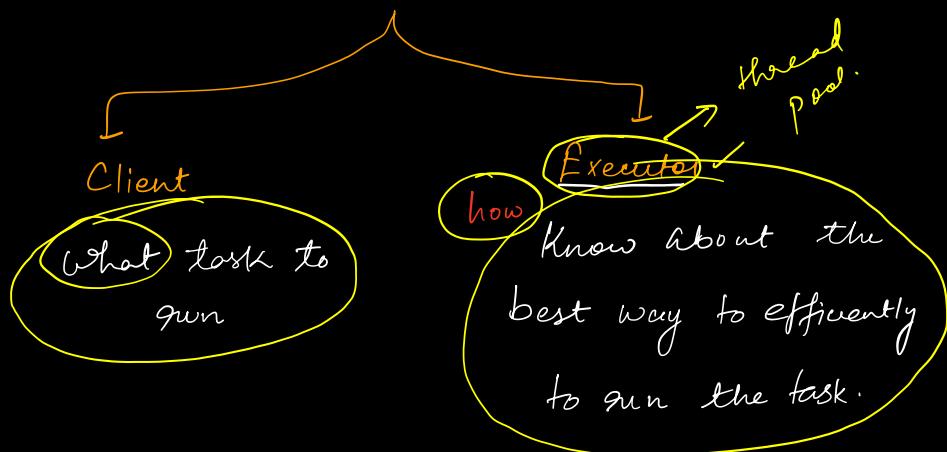
$\frac{1}{4}$ of 4 core CPU

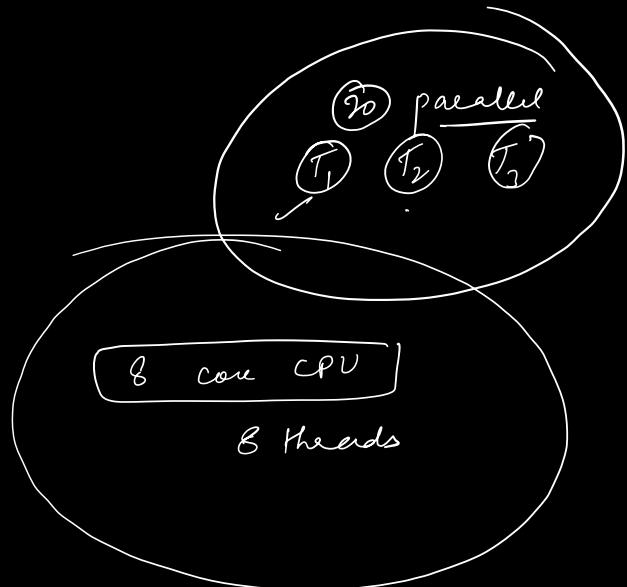
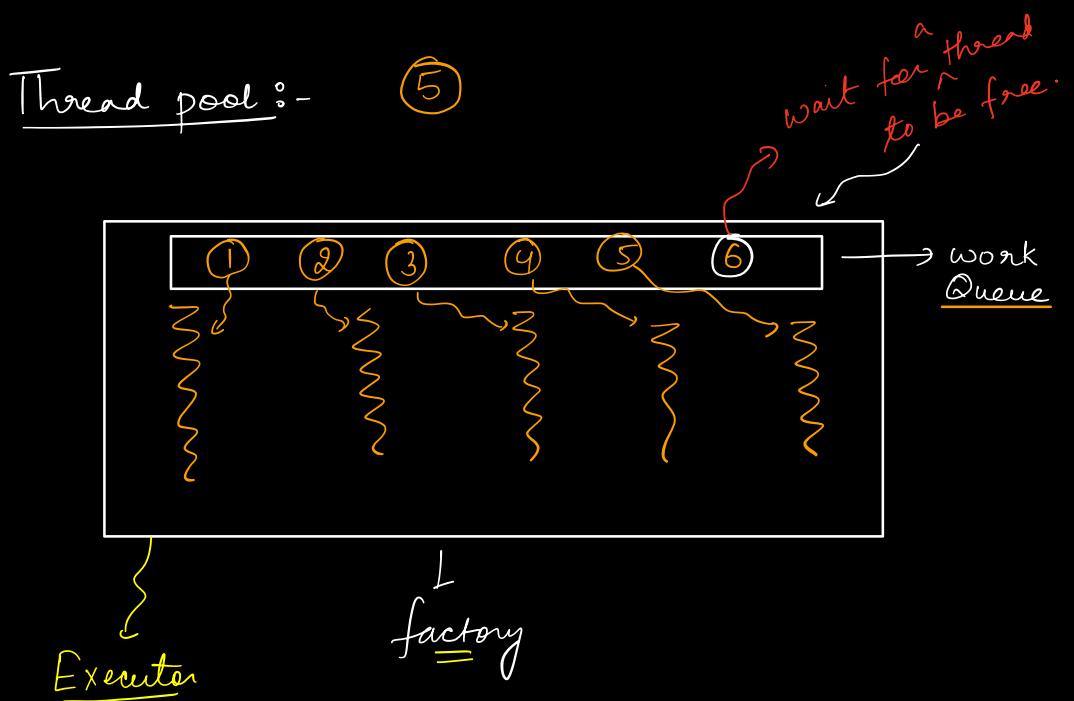
Client
 Creating the task
 creating the thread
 and allocating.

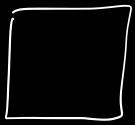
SOLID

Executor framework :- Dividing the responsibility

in 2 parts

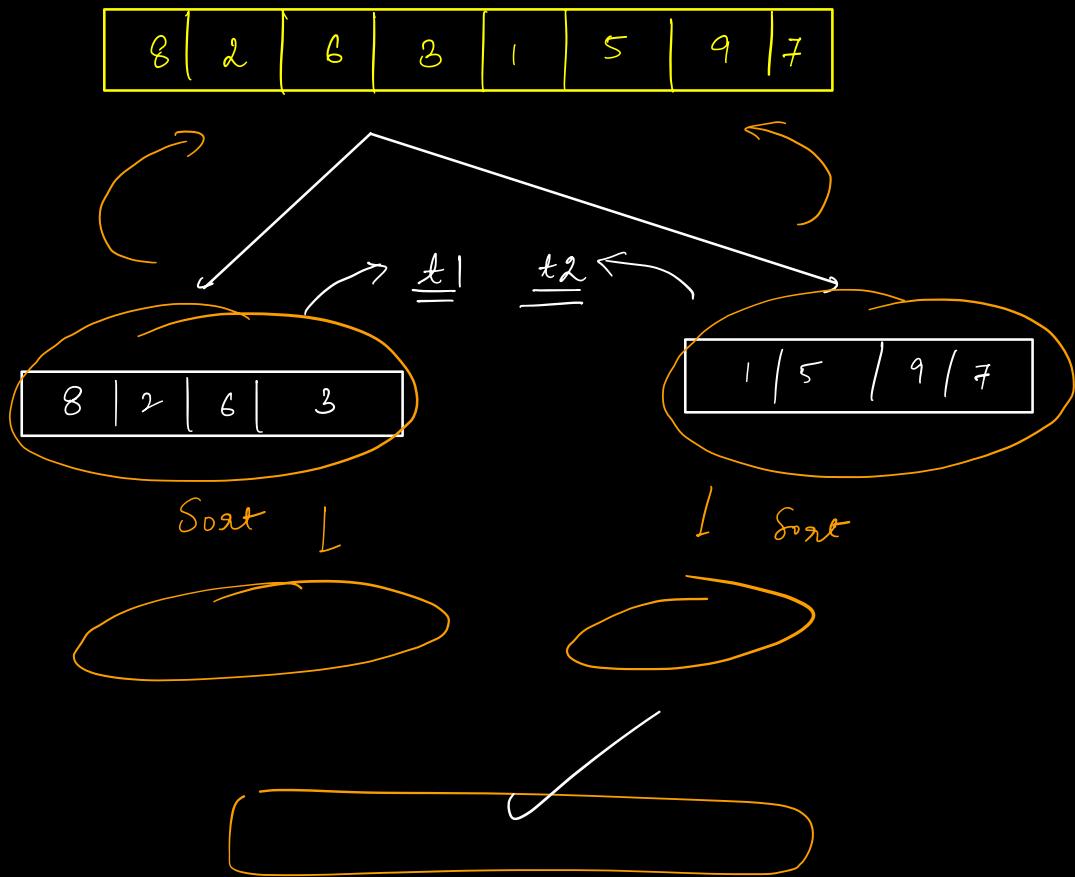




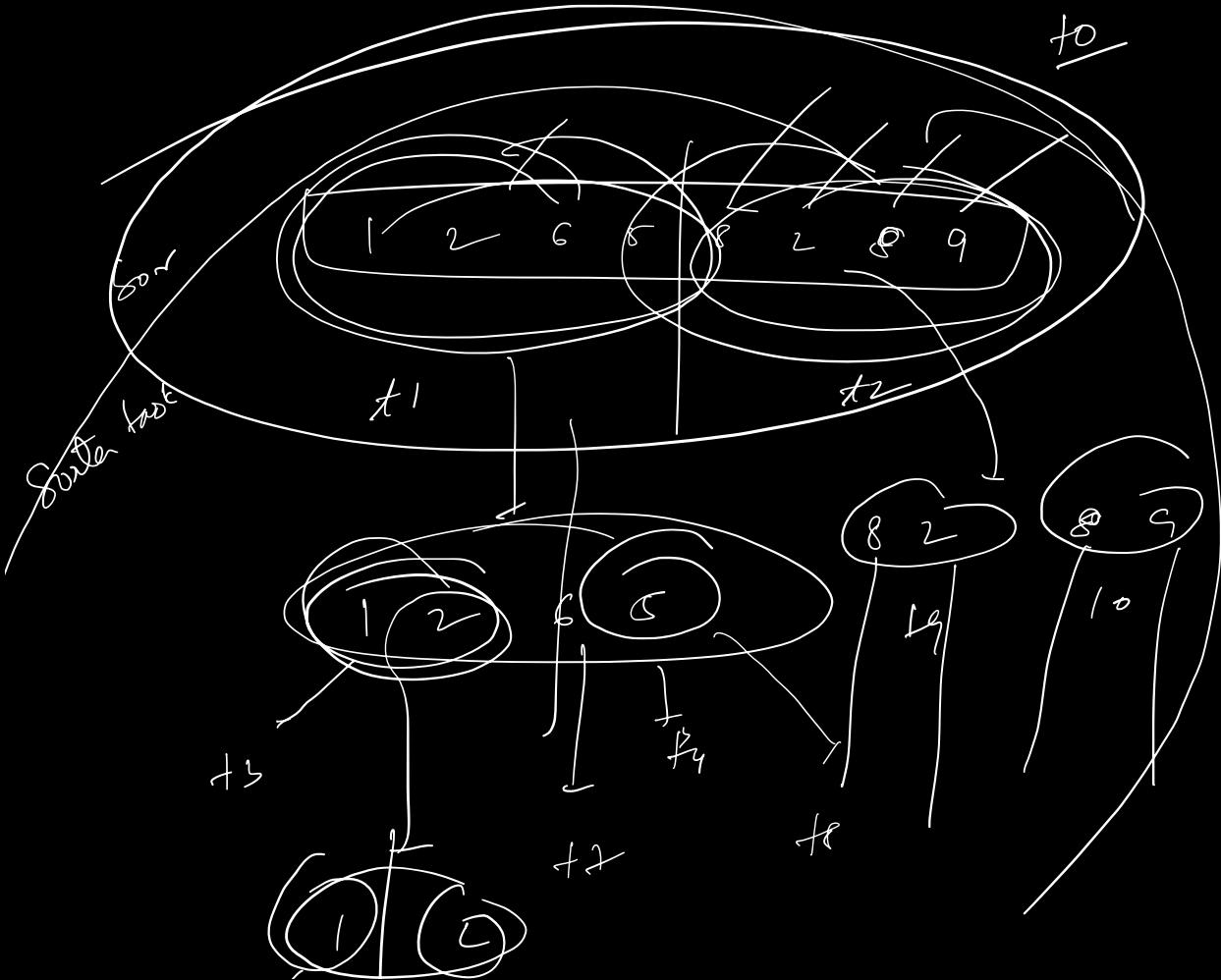
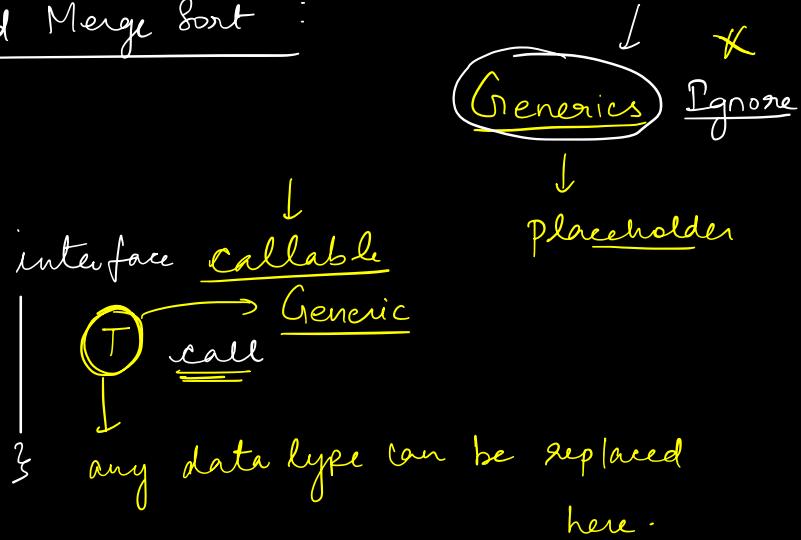


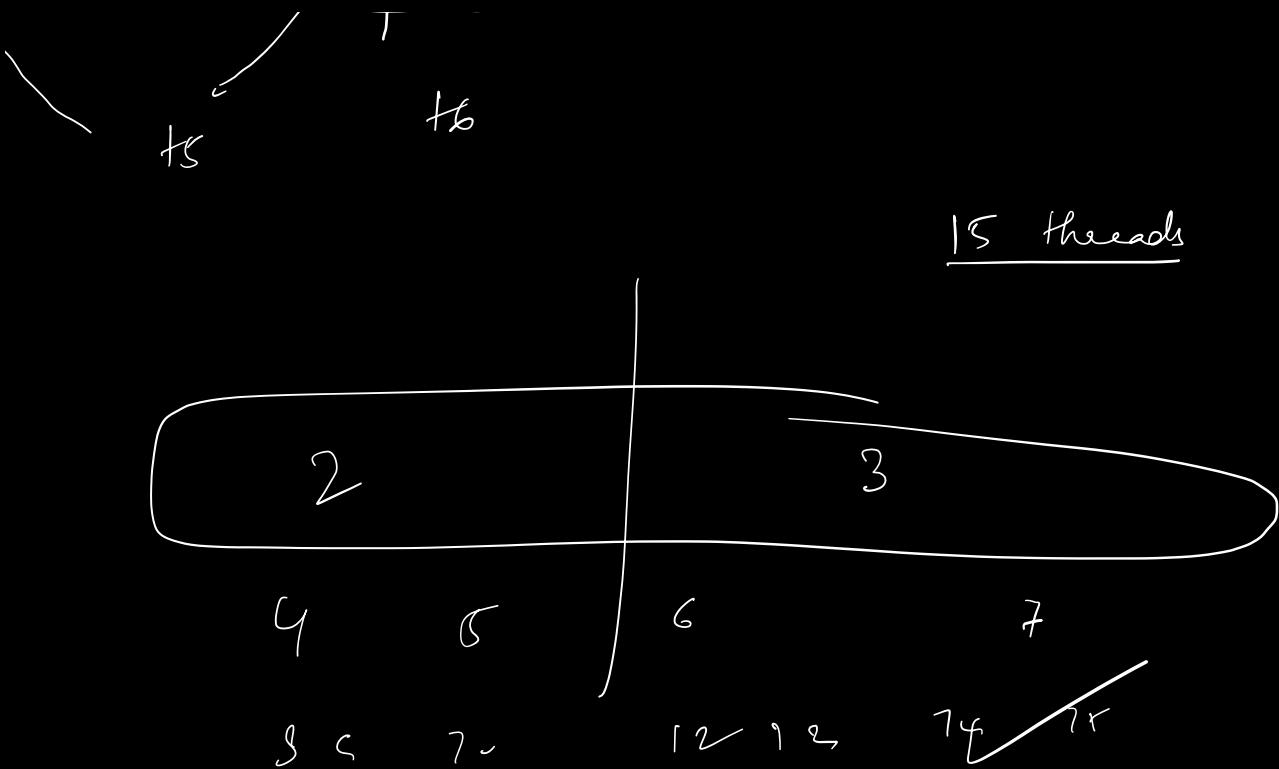
Callable = Runnable + Return the data

Merge Sort :- (Divide & Conquer)



Multi-threaded Merge Sort





Fixed

Sync Problem

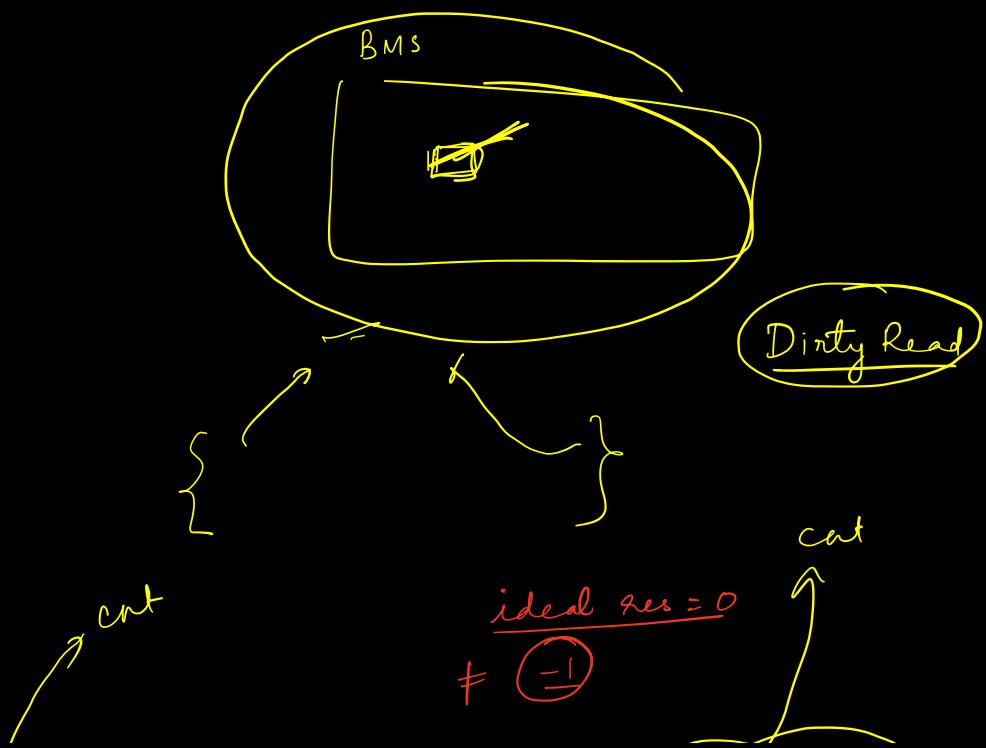
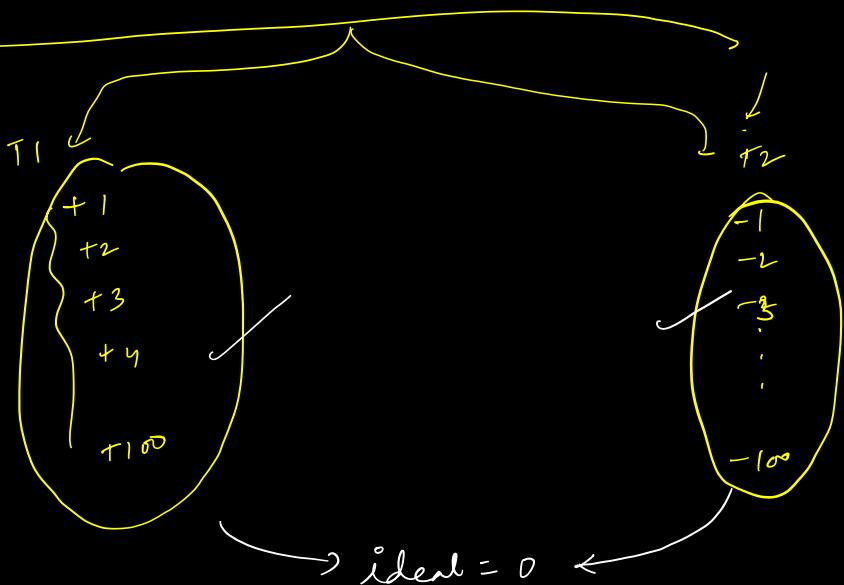
↳ Adder Subtractor

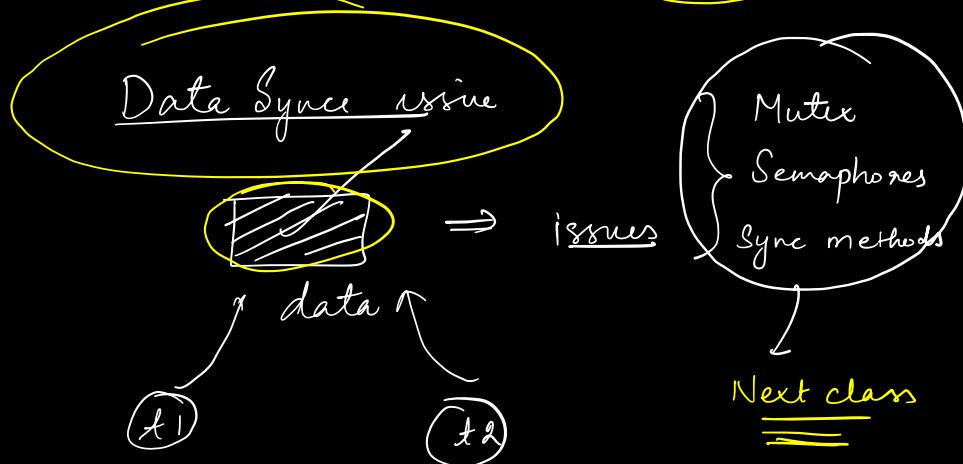
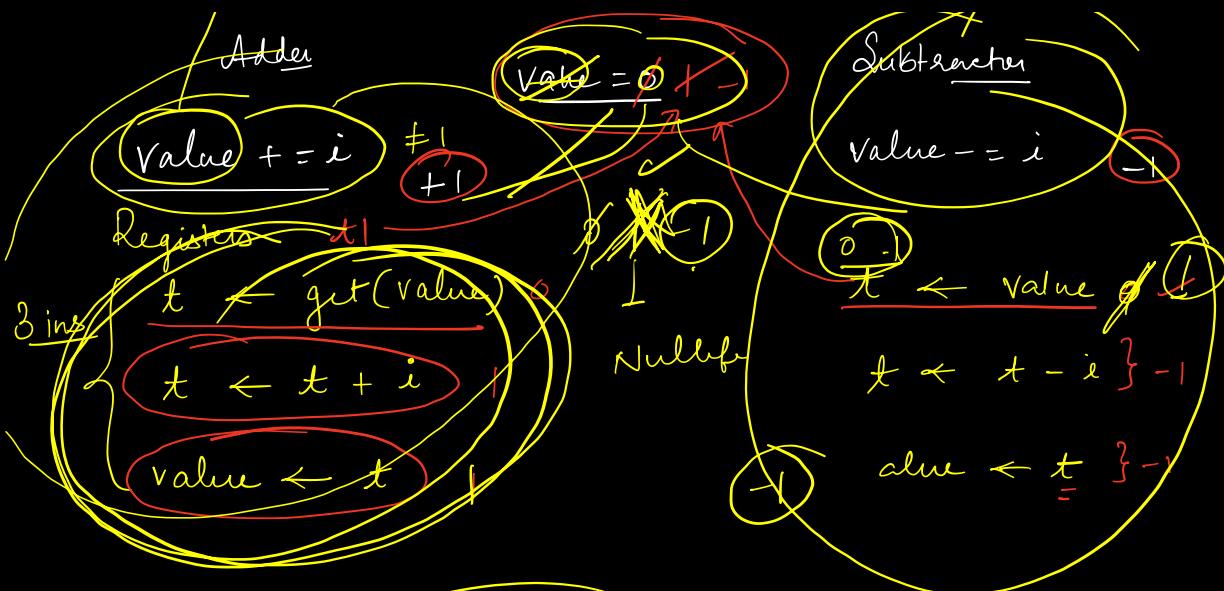
↳ Agenda for next class-

8 Min

Adder Subtractor :-

Adder : \rightarrow Add 1 to 100
Subtractor \rightarrow Subtractor 1 to 100 value = 0





Workers = Threads

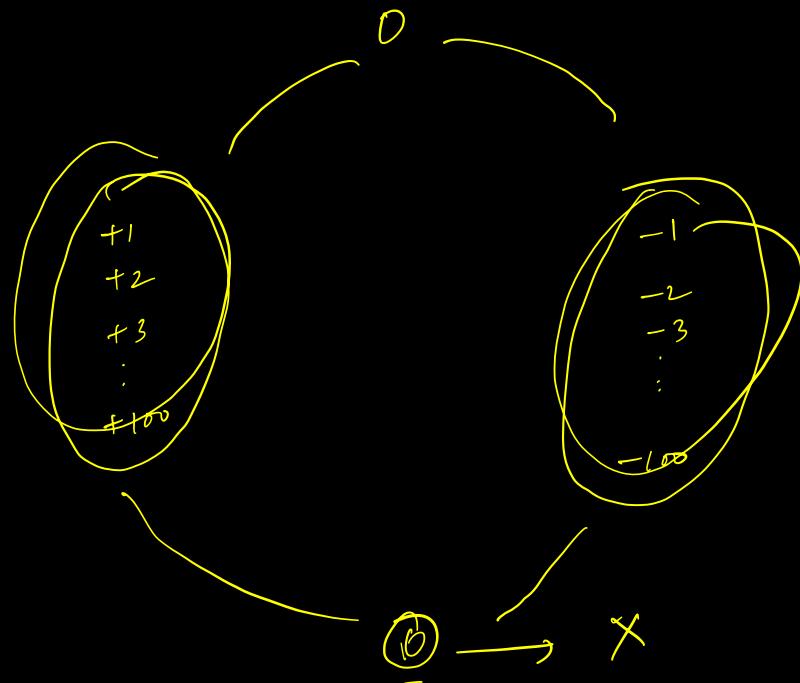
Threads

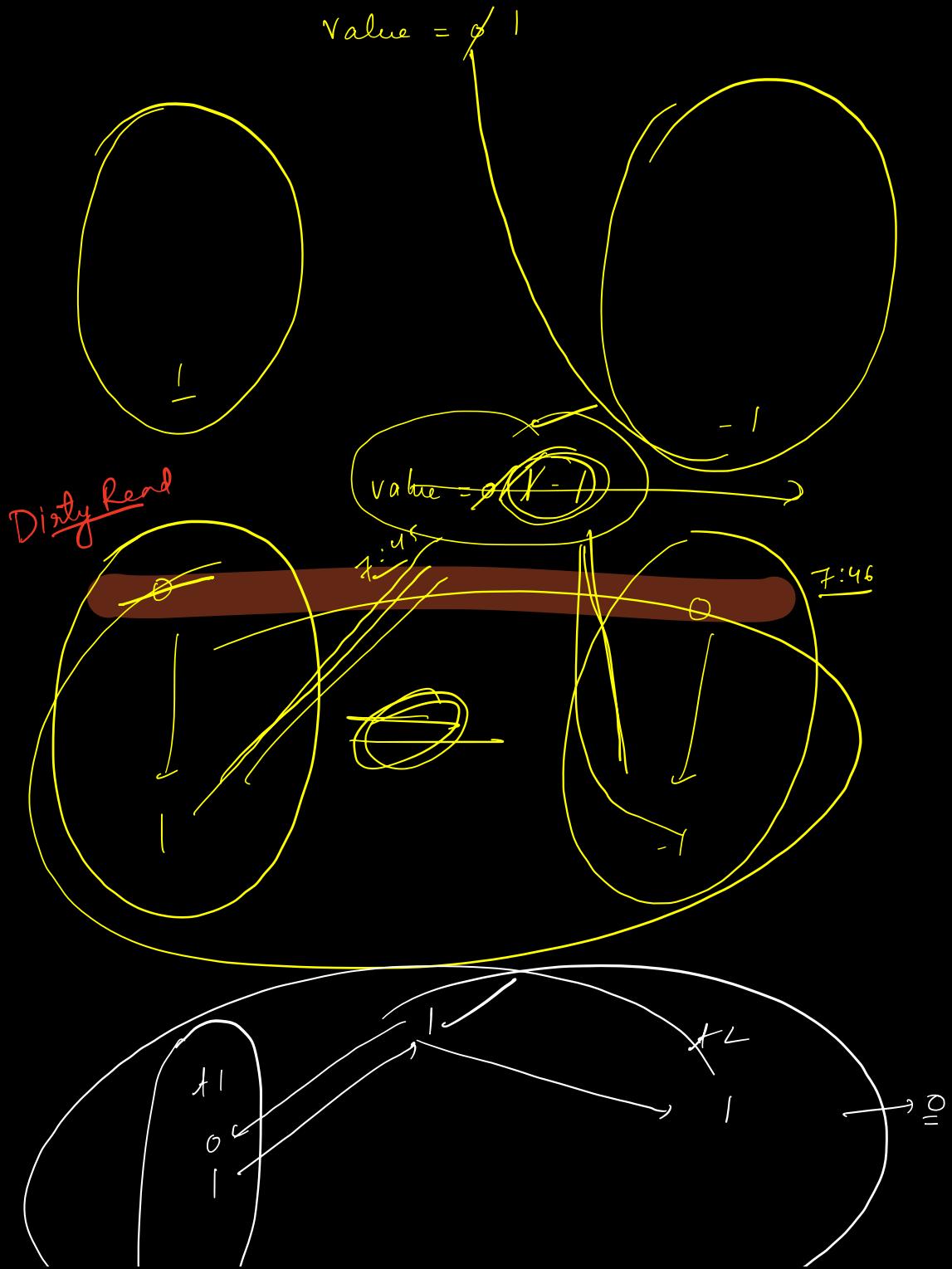
L

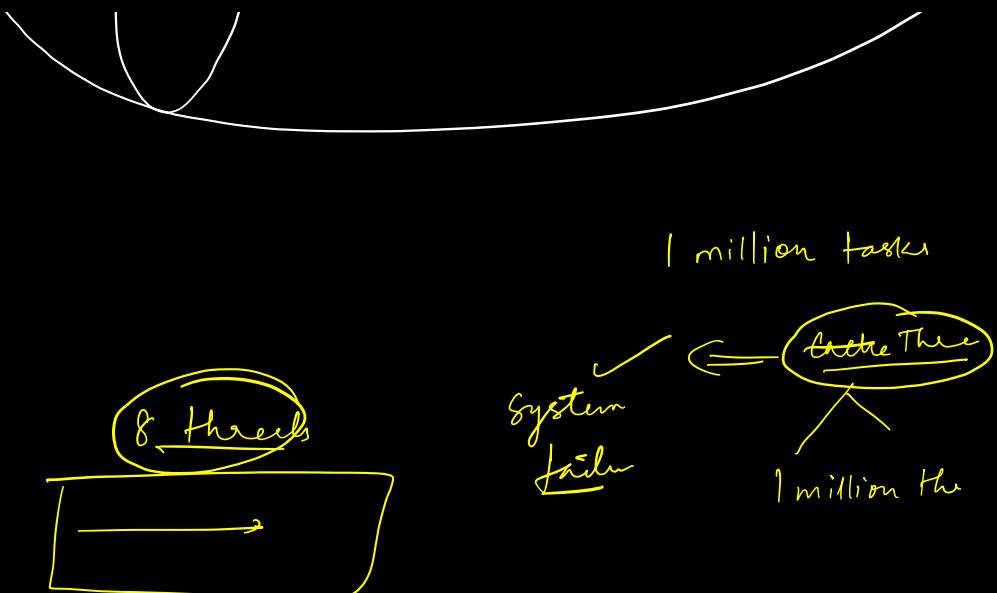
Executor Service \Rightarrow thread pool

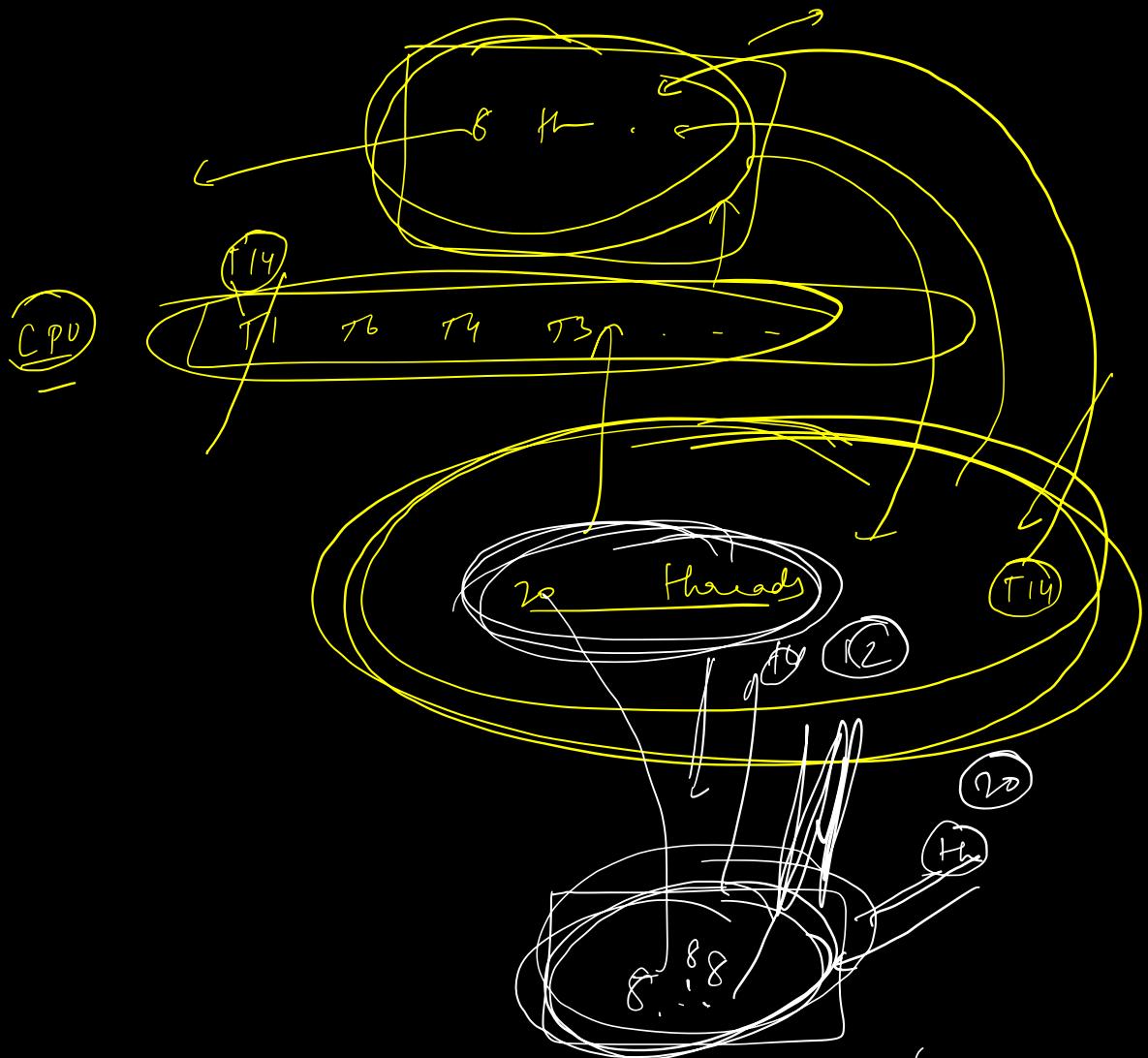
Callables \rightarrow Merge sort

Addn | Subtractn \rightarrow sync Problem



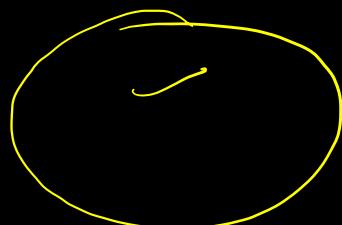




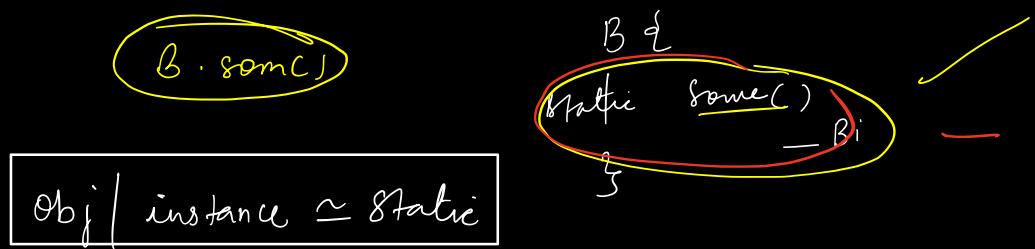
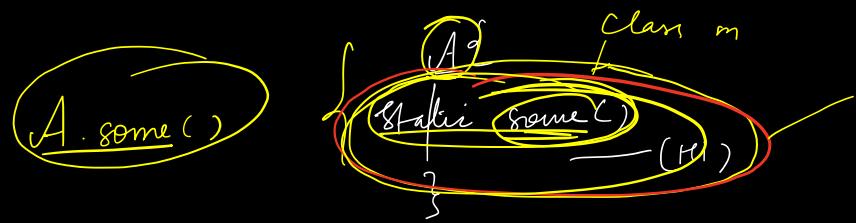


Algo

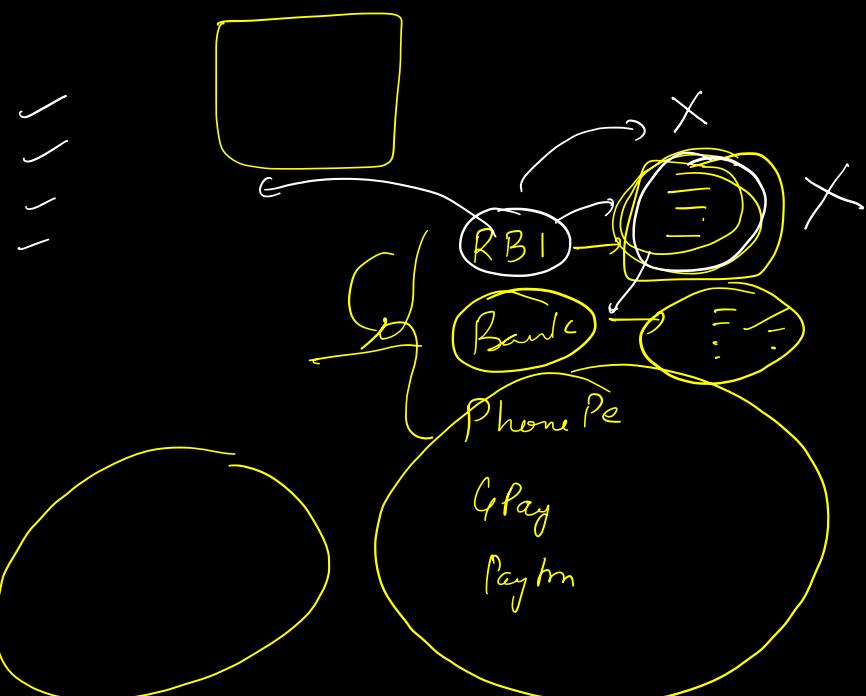
Global



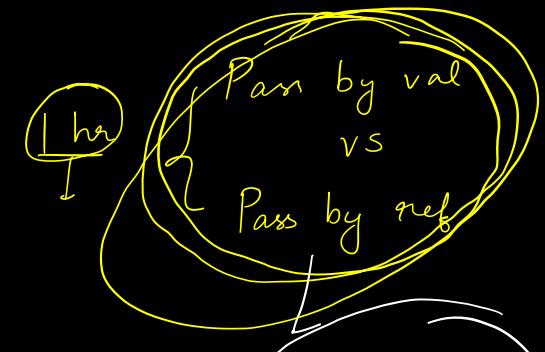
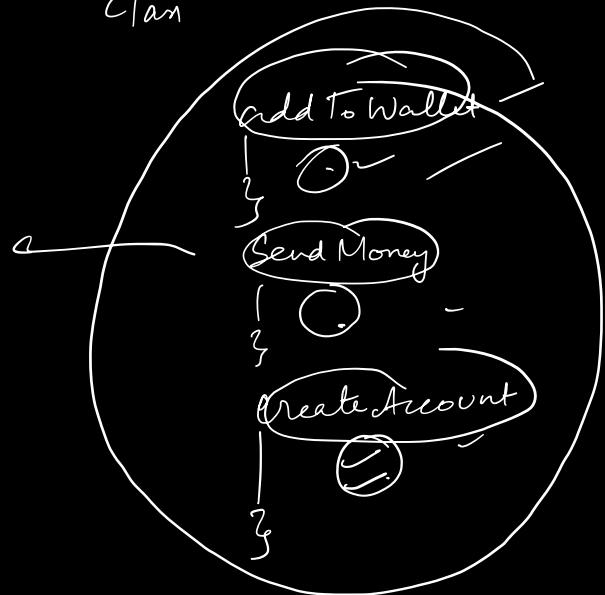
$\left. \begin{array}{l} FCFS \\ SRTF \\ SJF \end{array} \right\}$



$A.b = \text{new } B();$



C/C++



Tag
me

Elaborate your
doubt

do something()