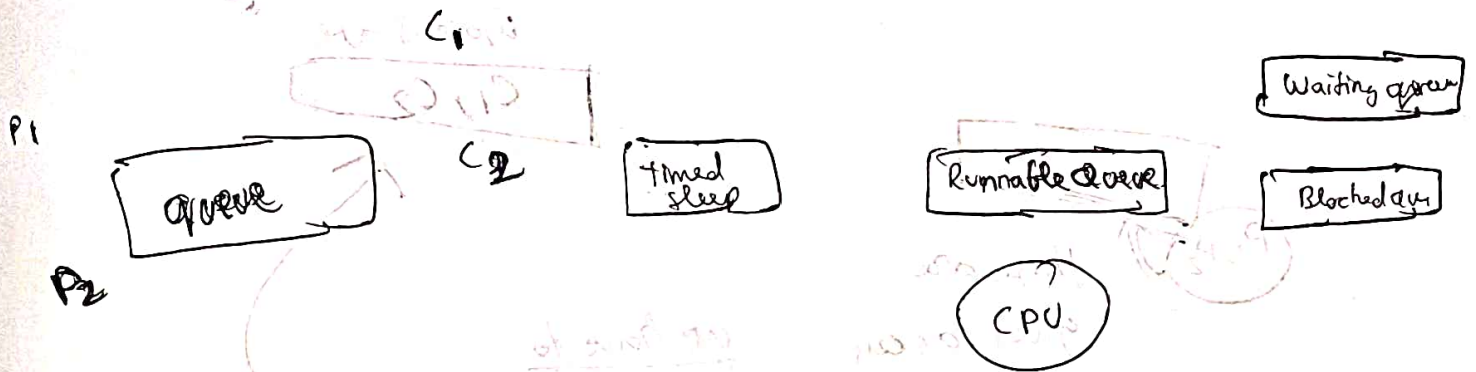


In the producer, Consumer problem, I was getting confused, the notifyAll() significance and why can't we handle it using the ~~old~~ already used synchronised blocks.

(Case I)
 $P_1, P_2 \rightarrow$ Producer threads
 $C_1, C_2 \rightarrow$ Consumer threads

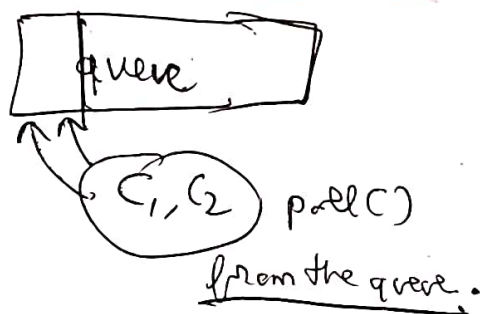
Thread Lifecycle



Imagine the queue is full,

P_1, P_2 threads come to produce messages,

$[P_1, P_2]$ (goes to wait() state)



Now if we don't notify, then the producer threads, P_1, P_2 won't move to the Runnable queue.

So (P_1, P_2)



Case 2

P_1
 P_2

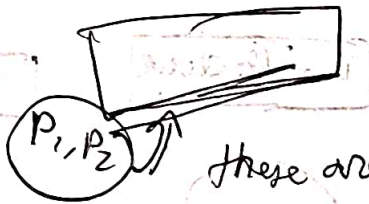
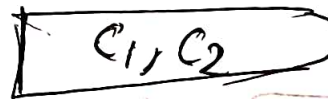


C_1
 C_2

Queue Empty

C_1, C_2 comes but queue is empty

wait state



these are
given access
to the queue
and they
produce,

we have to
call notifyAll() to bring these
processes out into the
readyState().

Last issue which I was facing

