Non Goals: Starvation

Starvation is when a thread is prevented from making progress because some other thread has the resource it requires (could be CPU or a lock)

- → Starvation is usually a side effect of the scheduling algorithm
 - e.g a high priority thread always prevents a low priority thread from running
- → Starvation can be a side effect of synchronization
 - · e.g constant supply of readers always blocks out writers

Scheduling Criteria

- Throughput # of threads that complete per unit time
 # jobs/time (Higher is better)
- Turnaround time time for each thread to complete
 Tfinish Tstart (Lower is better)
- Response time time from request to first response ()
 i.e. time between waiting to ready transition and ready to running transition
 Tresponse Trequest (Lower is better)
- → Above criteria are affected by secondary criteria
 - CPU utilization %CPU fraction of time CPU doing productive work
 - Waiting time Avg(Twait) time each thread waits in the ready queue