# Why having priorities?

✓ Optimize job turnaround time for "batch" jobs

✓ Minimize response time for "interactive" jobs

# MLQ - Multilevel Queue Scheduling (preemptive)

➡ Associate a priority with each thread and execute highest priority thread first. If same priority, do round-robin.

*high-priority* queue (e.g system thread) ⟶ T1 → T3 → T6

*medium* priority (eg. user thread) ⟶ T4

*low* priority (e.g background thread) ⟶ T2 → T5

◉ **Problem 1 :** starvation of low priority thread

◉ **Problem 2 :** (possibly) starvation of high priority thread

◉ **Problem 3 :** how to decide on the priority?