

MULTI-LEVEL
QUEUE

&

MULTI-LEVEL
FEEDBACK QUEUE

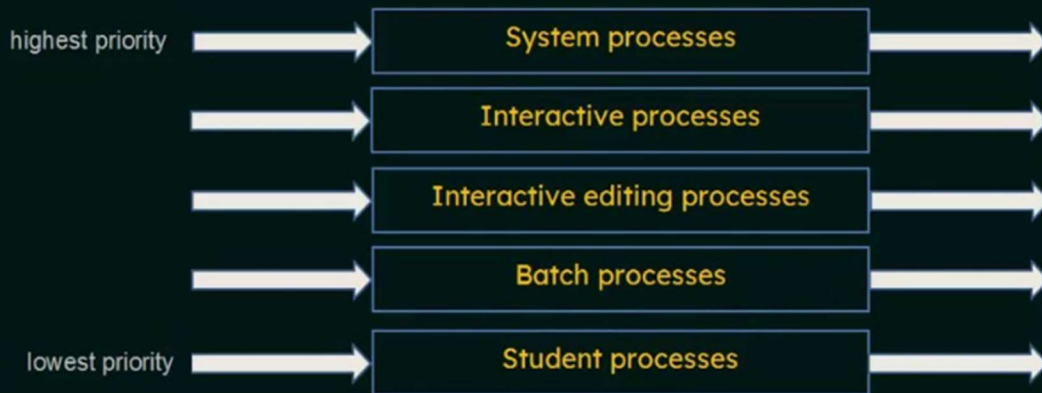


give answer to : "what is multilevel queue and feedback scheduling " with exact wording and reference to the book "operating system concepts by galvin"+



According to "Operating System Concepts" by Galvin, a **multilevel queue scheduling** algorithm partitions the ready queue into several separate queues, each with its priority level. The processes are assigned to a queue based on some property of the process, such as memory size, process priority, or process type. Within each queue, a scheduling algorithm such as round-robin, shortest job first, or priority scheduling is used. The highest priority queue is serviced first, followed by the next highest priority queue, and so on. **Feedback scheduling**, on the other hand, is a type of scheduling algorithm in which a process is given a certain amount of time to run before it is preempted and moved to a lower-priority queue. If a process uses its entire time slice, it is moved to a lower-priority queue, and if it finishes before its time slice, it is moved to a higher-priority queue. This allows longer jobs to run without being starved of CPU time, while also ensuring that short jobs are not blocked by long-running processes.

Multilevel Queue Scheduling



Multilevel Feedback Queue Scheduling

