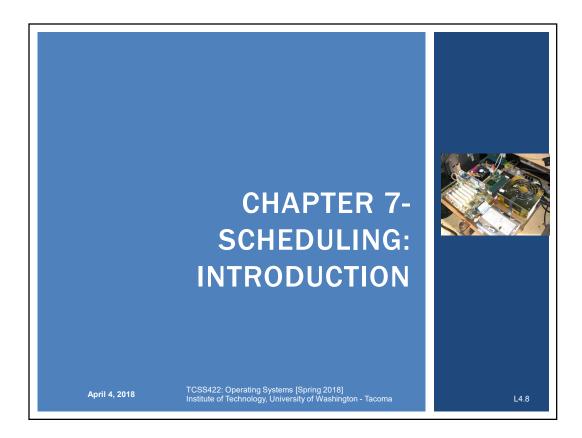
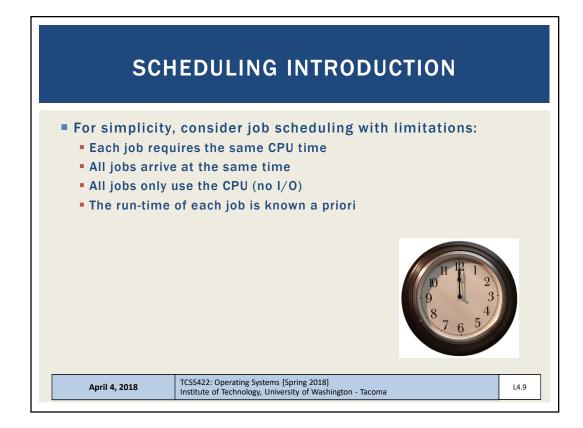
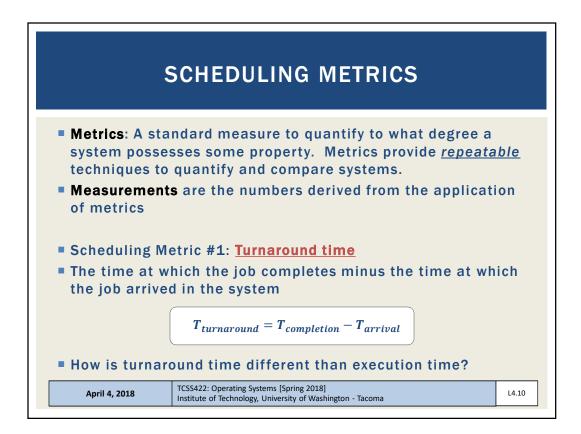
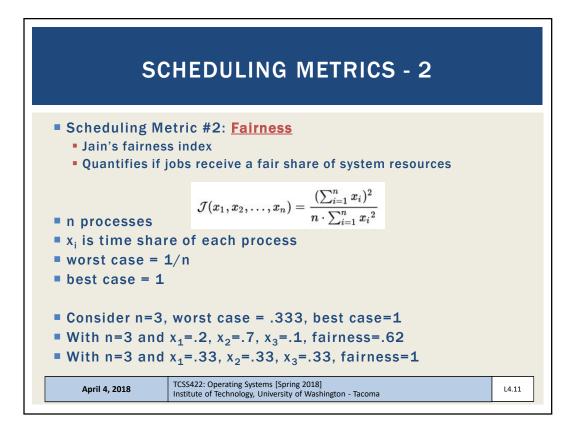


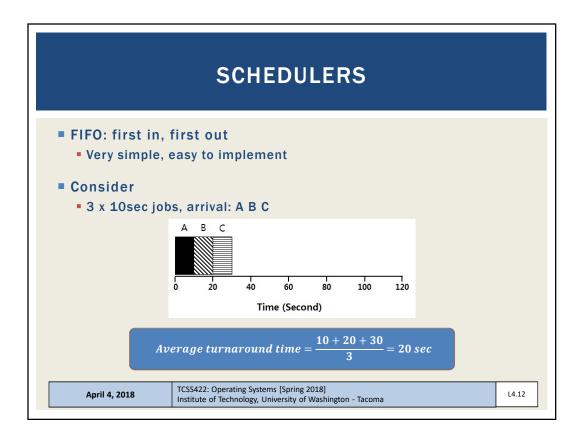
	FEEDBACK - 4	
Preemptive multi-tasking – is the timer interrupt the only method for the OS to regain control of the CPU?		nly
What are CPU modes?		
Why is there an unused privilege ring (2) between VM and user? What is it for?		and
What are sys	stem calls?	
April 4, 2018	TCSS422: Operating Systems [Spring 2018] Institute of Technology, University of Washington - Tacoma	L4.7

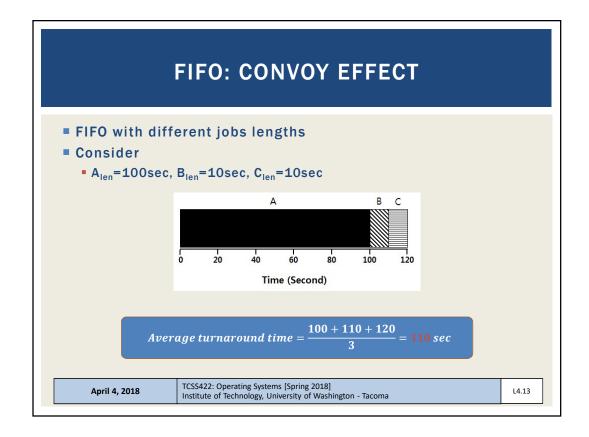


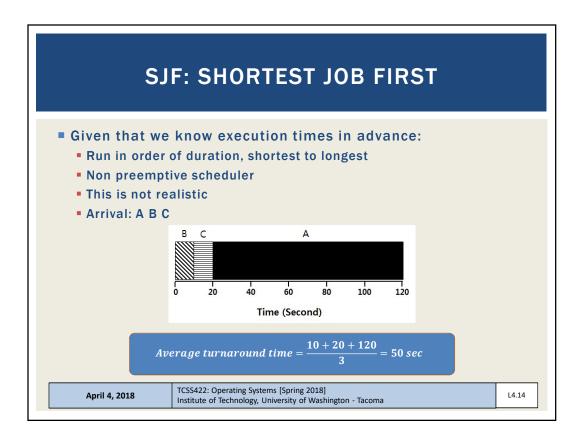


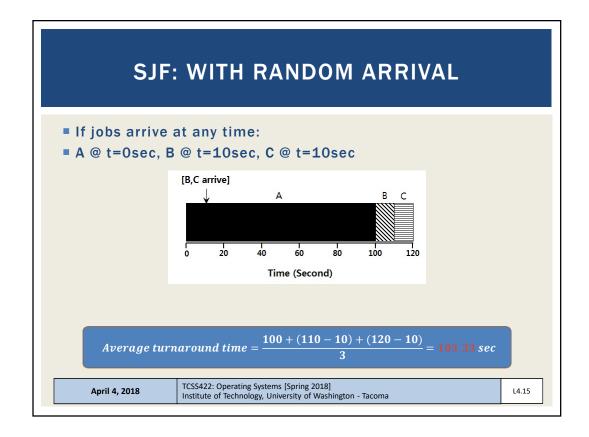


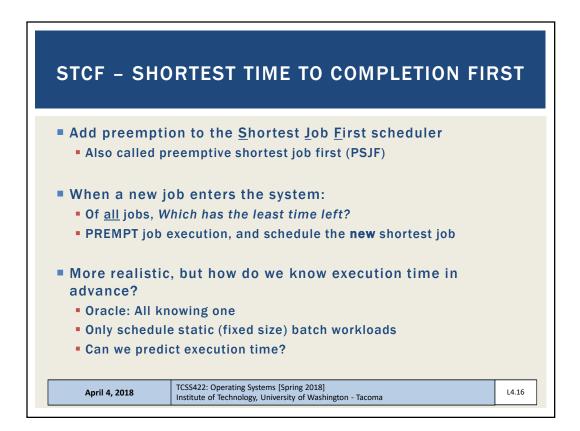


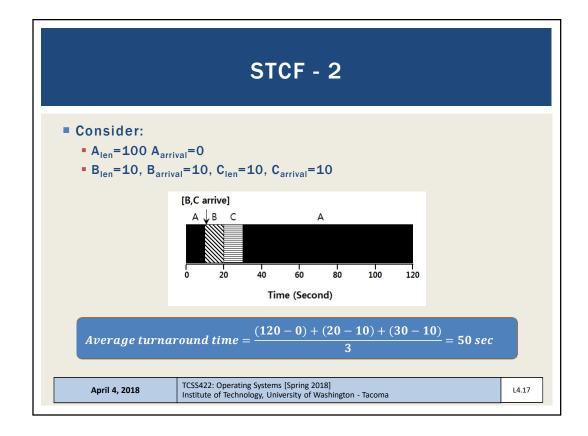


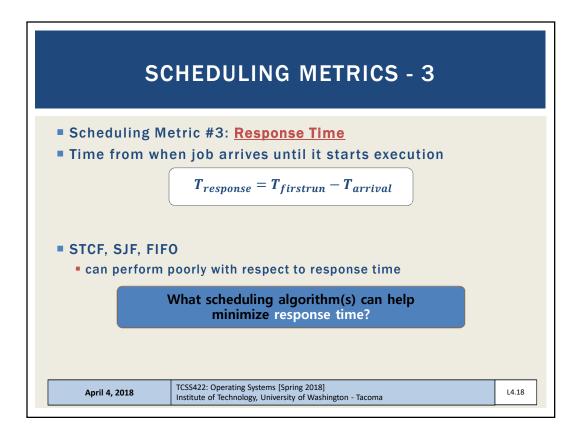


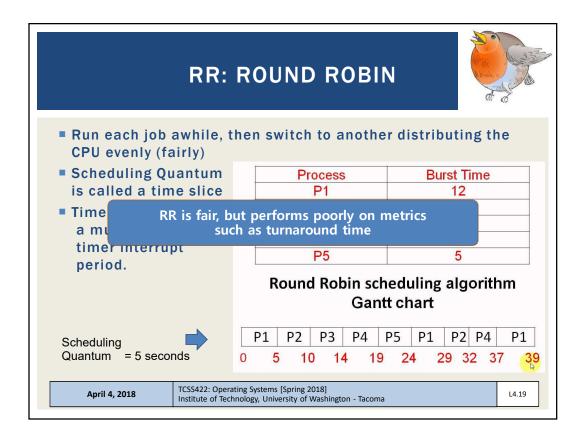


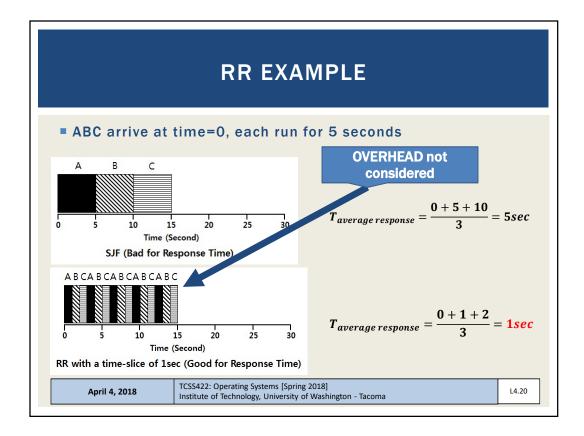


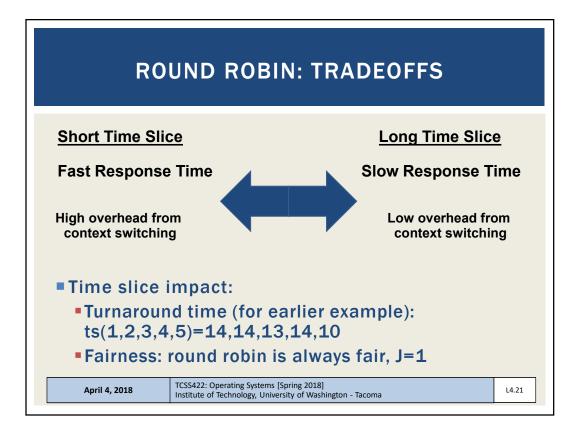


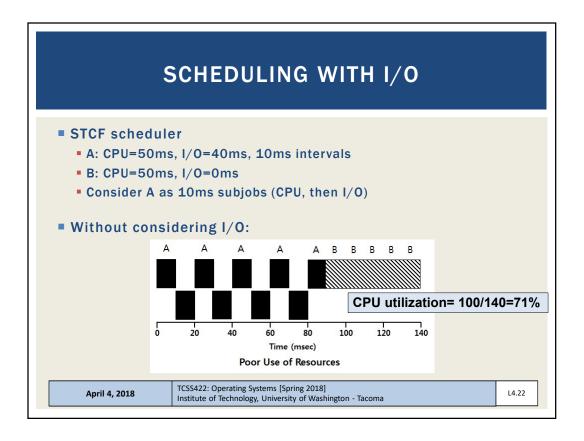


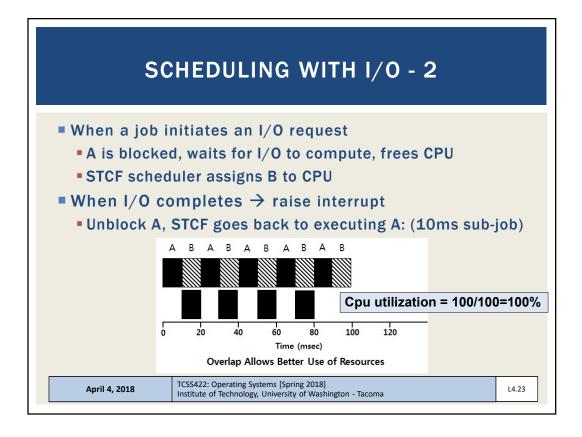


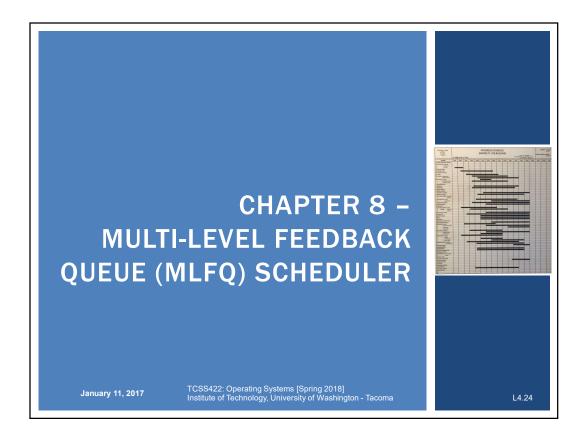


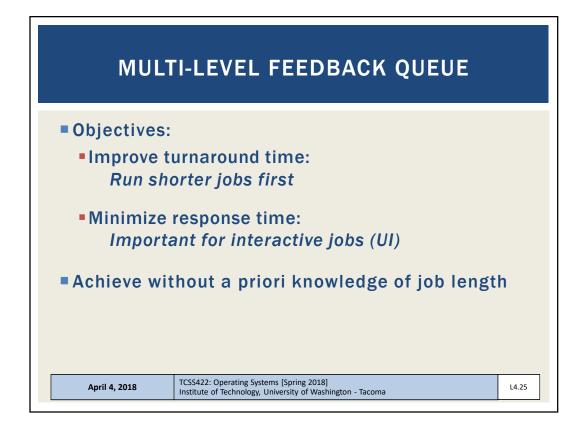


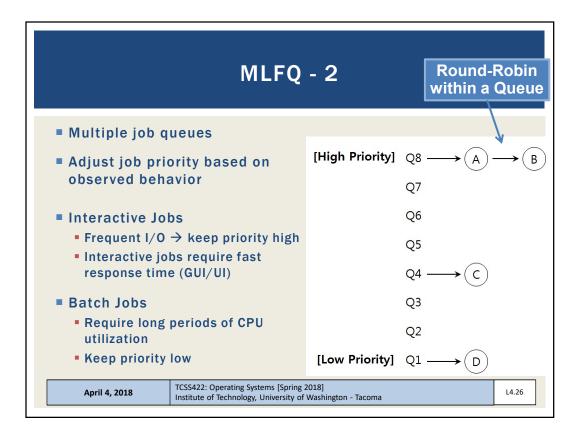




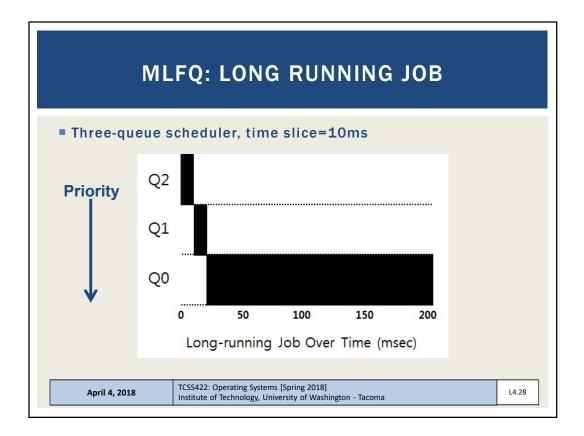


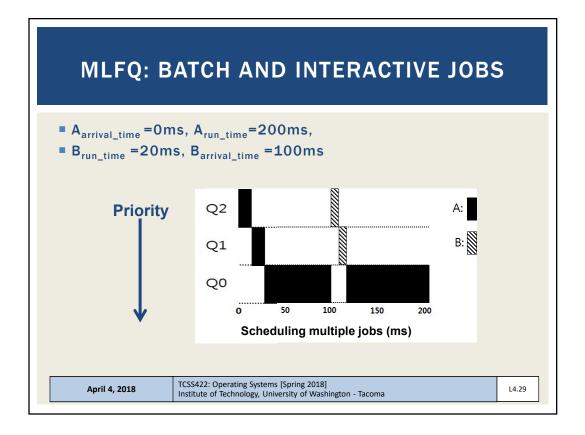


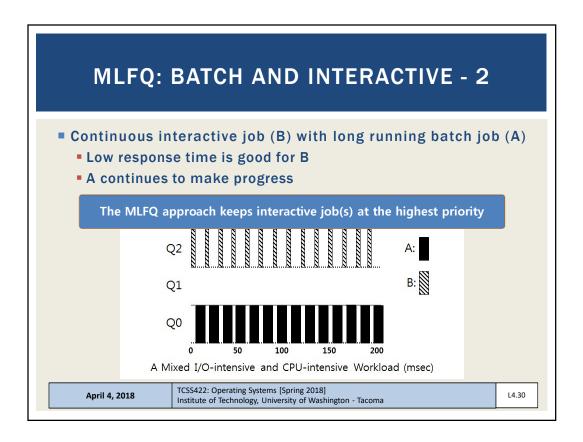




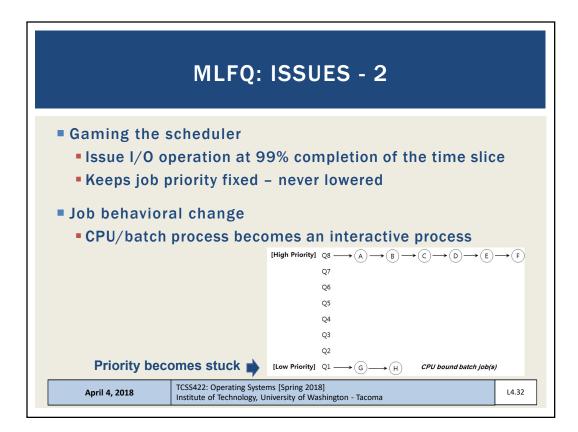


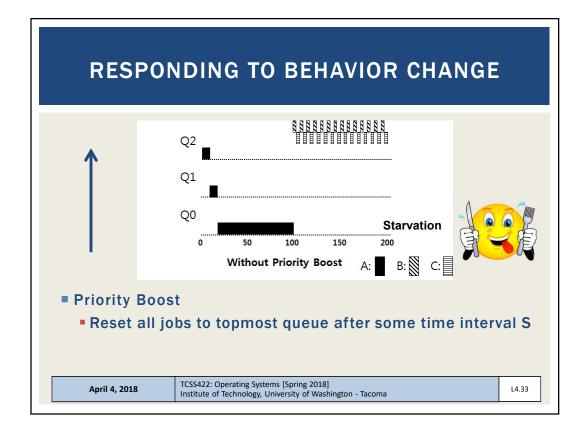


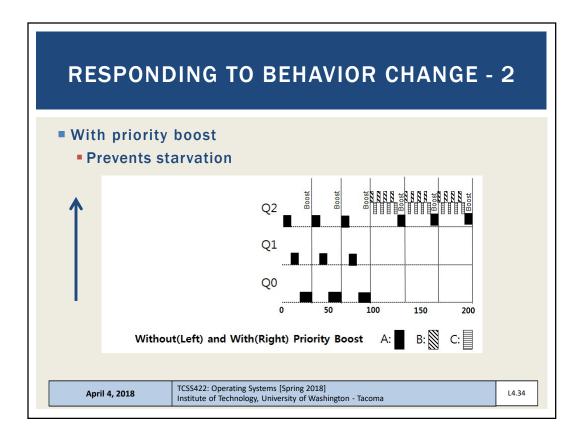


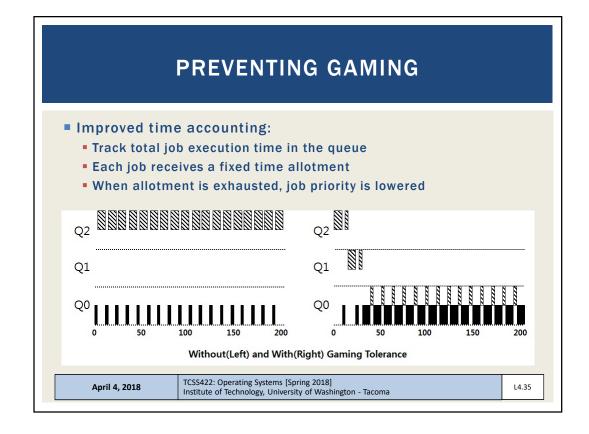


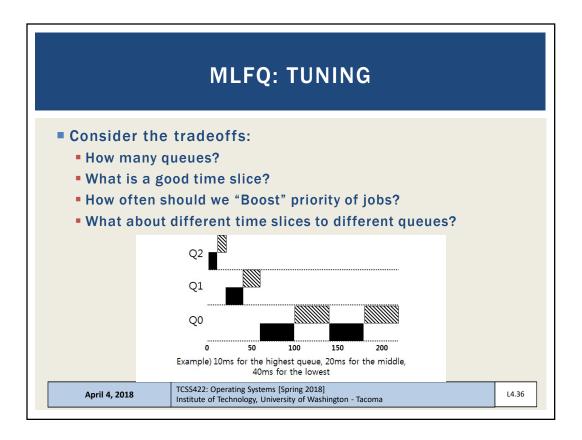
	MLFQ: ISSUES
Starvatio	n
[High Priority]	$Q8 \longrightarrow (A) \longrightarrow (B) \longrightarrow (C) \longrightarrow (D) \longrightarrow (E) \longrightarrow (F)$
	Q7
	Q6
	Q5
	Q4
	Q3
	Q2
[Low Priority]	$Q1 \longrightarrow G \longrightarrow H$ CPU bound batch job(s)
April 4, 2018	TCSS422: Operating Systems [Spring 2018] Institute of Technology, University of Washington - Tacoma

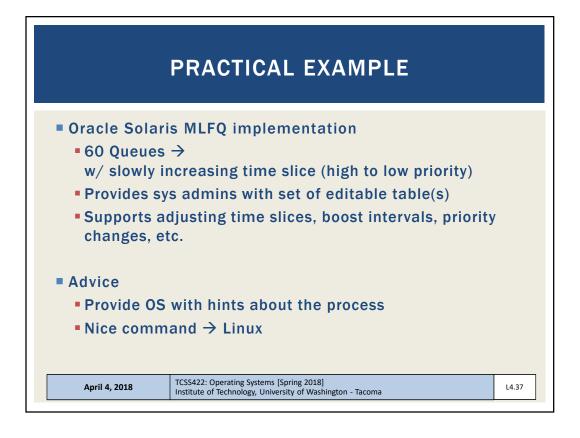


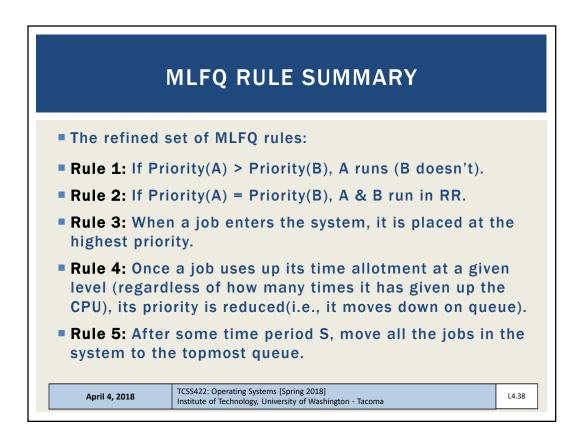












priority, and 4 for low priority. This MLFQ scheduler performs a Priority Boost every 6 timer units. When the priority boost fires, the current job is preempted, and the next scheduled job is run in round-robin order.
Job Arrival Time Job Length
A T=0 4
B T=0 16
C T=0 8
(11 points) Show a scheduling graph for the MLFQ scheduler for the jobs above. Draw vertical lines for key events and be sure to label the X-axis times as in the example. Please draw clearly. An unreadable graph will loose points.
HIGH
MED
LOW
0

