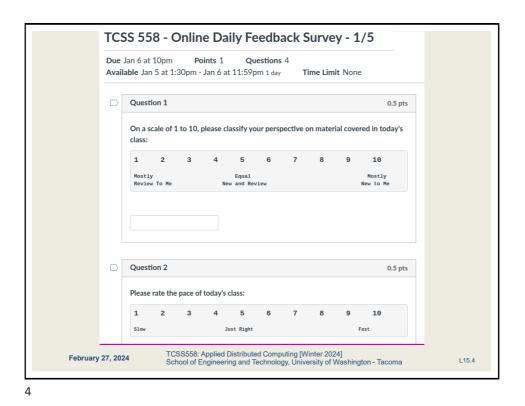
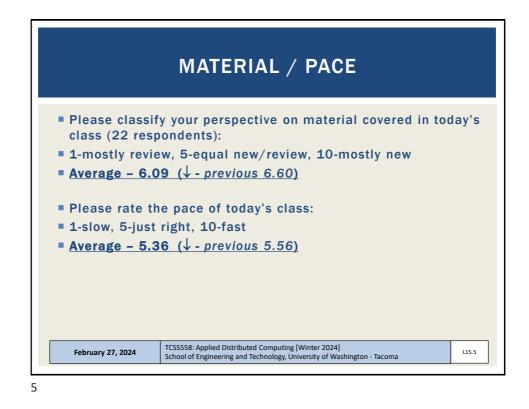
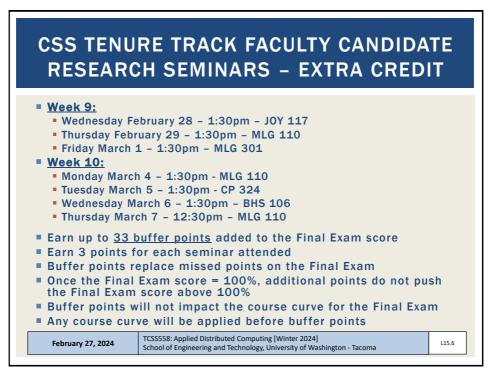


ONLIN	E DAILY F	EEDBACK SURVEY
	vailable for com ys: due by ~ We	
	TCSS 558 A →	Assignments
	Winter 2021	Search for Assignment
	Announcements Assignments	Upcoming Assignments
	Zoom Chat	TCSS 558 - Online Daily Feedback Survey - 1/5 Not available until Jan 5 at 1:30pm Due Jan 6 at 10pm -/1 pts
February 27, 2024	TCSS558: Applied Distributed School of Engineering and Tec	Computing [Winter 2024] chnology, University of Washington - Tacoma

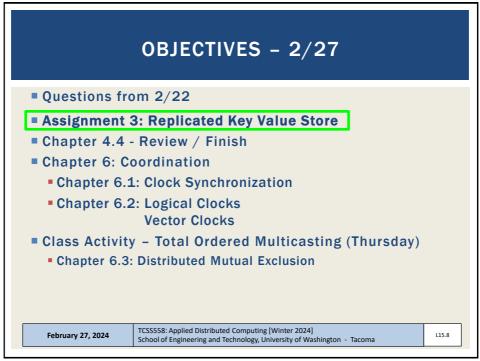


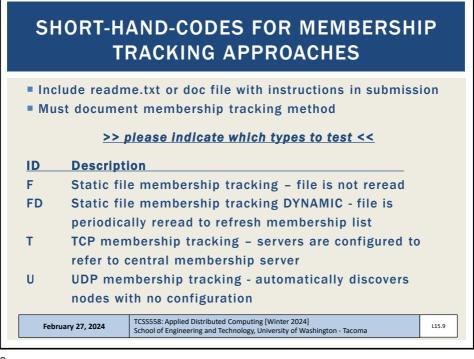


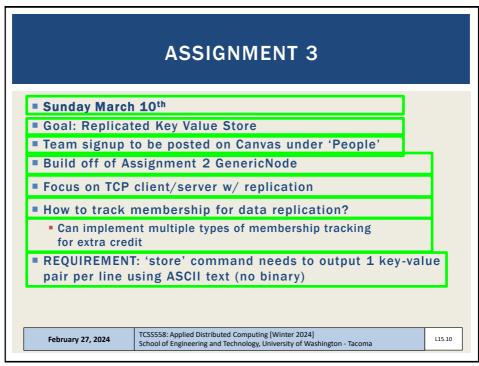


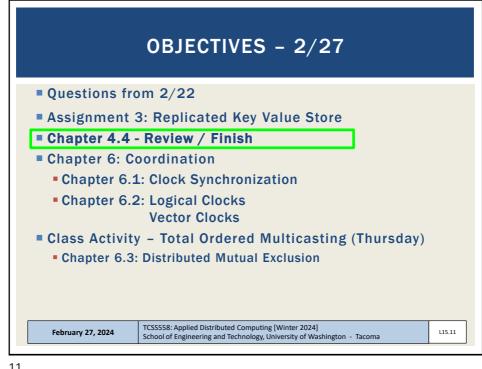


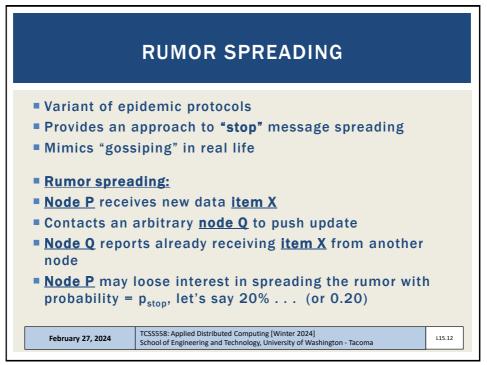
FEEDBACK FROM 2/22
,



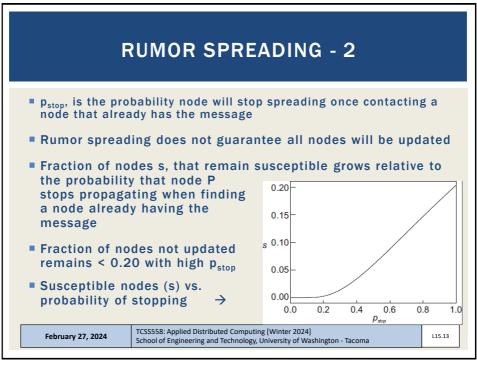


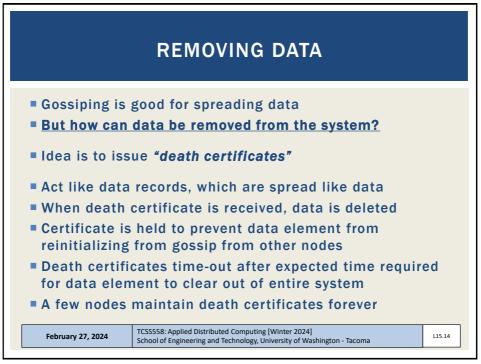


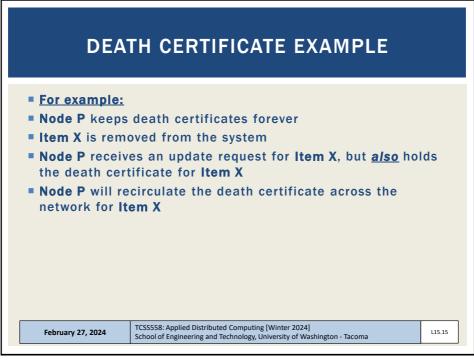


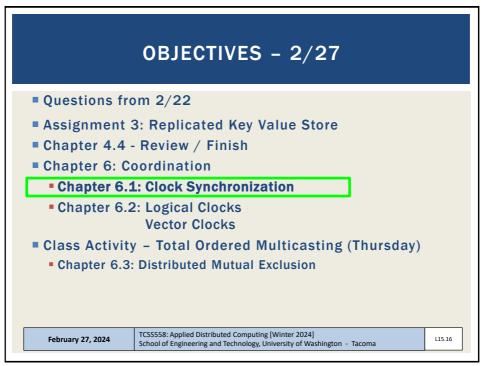


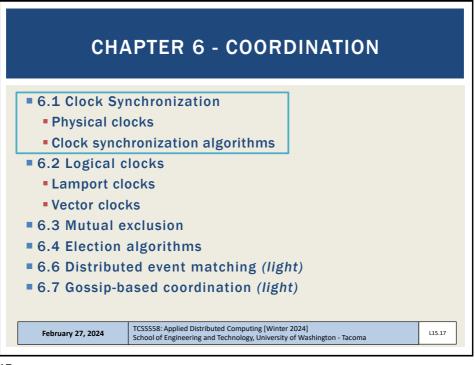






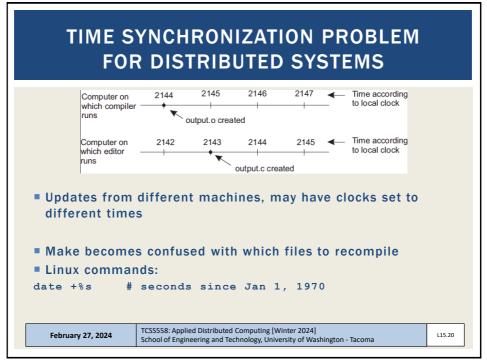




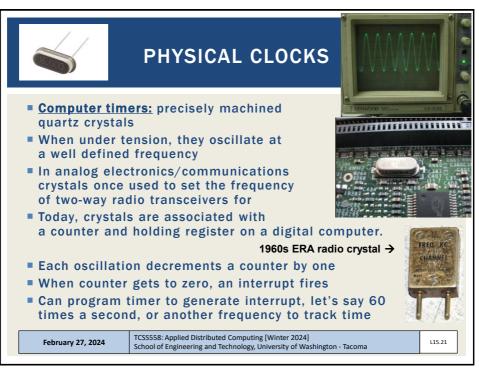


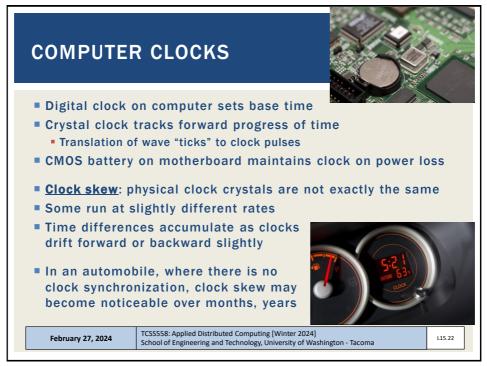


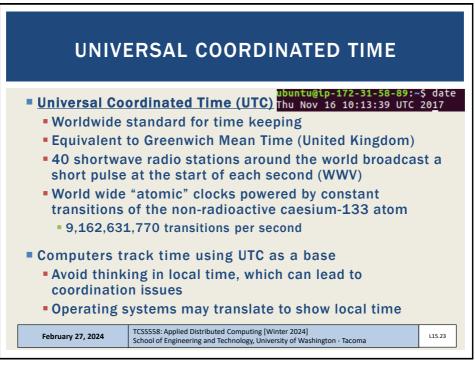
CLO	OCK SYNCHRONIZATION
 Example: "make" is used executable file 	d to compile source files into binary object and
· · · · · · · · · · · · · · · · · · ·	tion, make only compiles files when the "last ' of source files is more recent than object and
	es are on a shared disk of a distributed system no agreement on time
Consider if the	program has 1,000 source files
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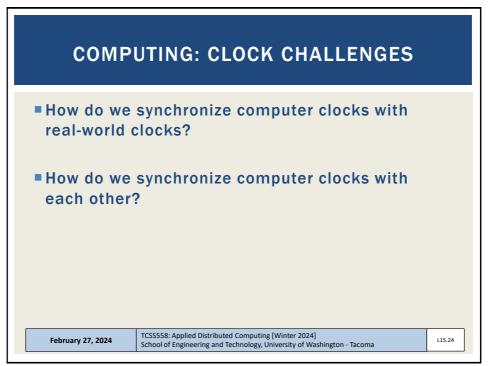


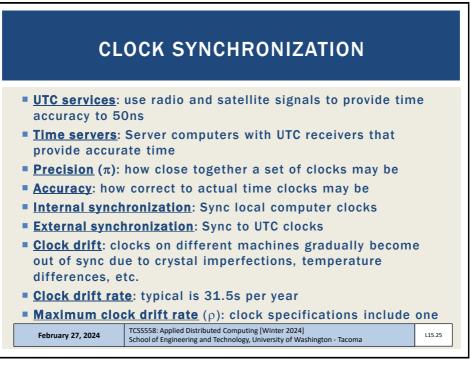


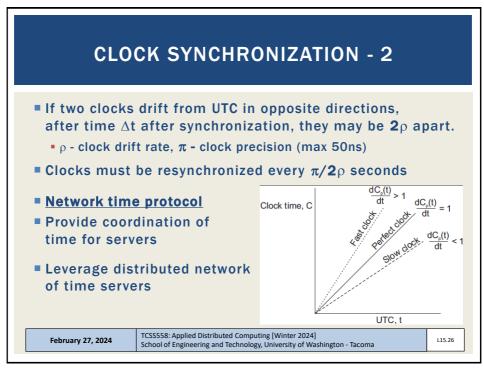


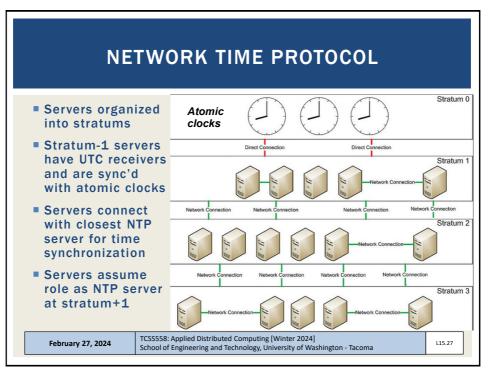


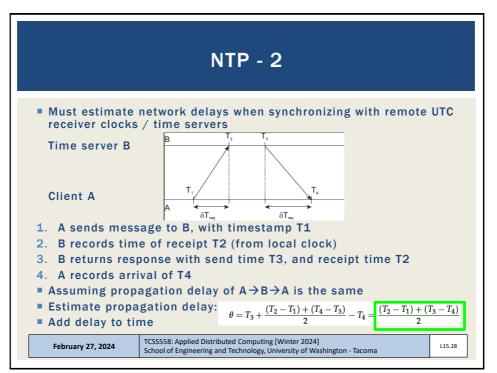




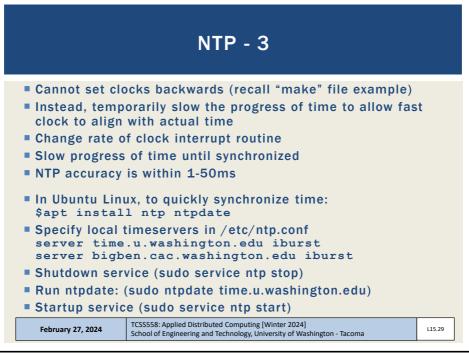


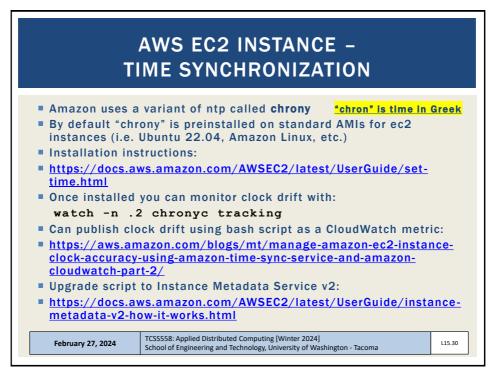






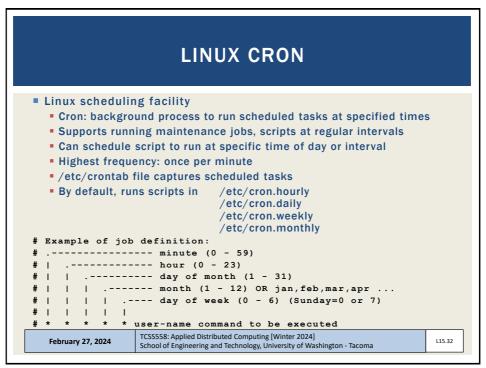


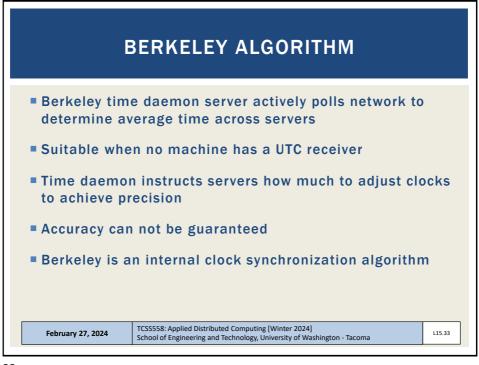


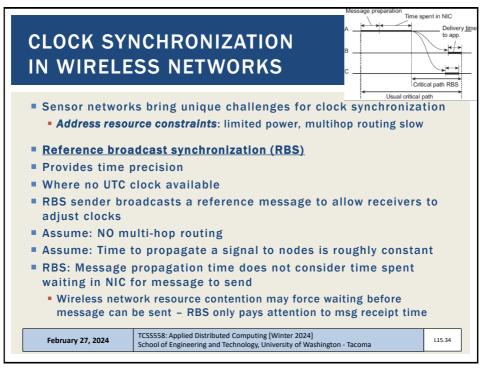




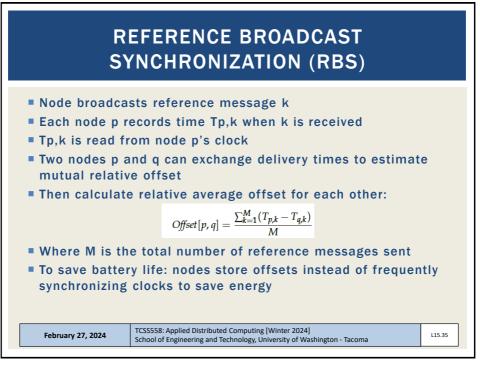
						ubuntu@ip	-172-31-47-121:
Every 0.2s: chro	nyc	tracking					
Stratum Ref time (UTC) System time Last offset RMS offset Frequency Residual freq Skew Root delay Root delay Root dispersion Update interval Leap status	: 0.0 : +0 : 0.0 : 2.0 : +0 : 0.0 : 0.0 : 0.0 : 16	00000106 .00000062 00000062 587 ppm .000 ppm 019 ppm 00042523 00029853 .0 secor	4 secon 21 secon 8 secon fast 7 secon 9 secon	ds fast of NTI nds ds ds	o time		

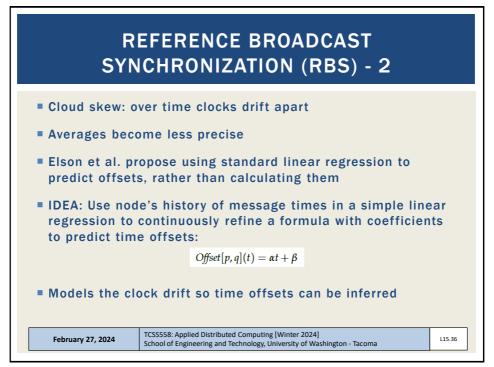








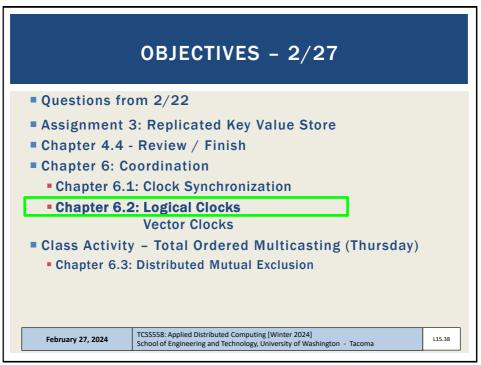


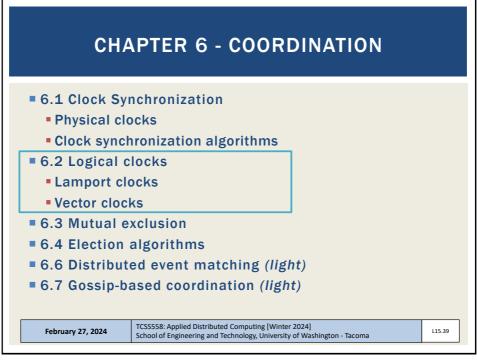


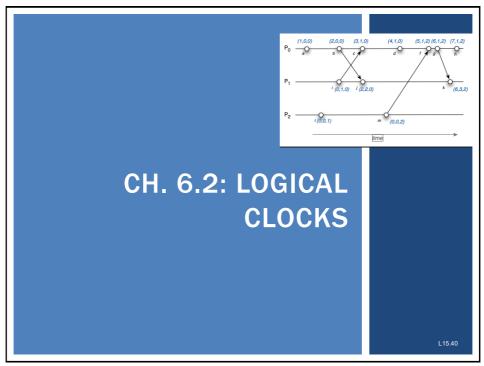
TCSS 558: Applied Distributed Computing [Winter 2024] School of Engineering and Technology, UW-Tacoma

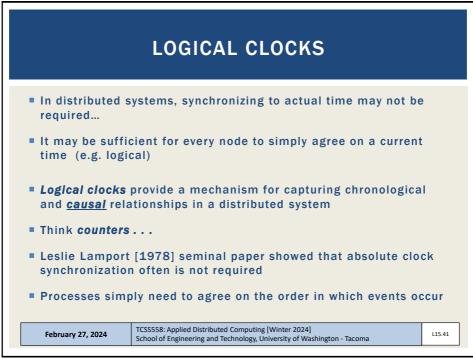


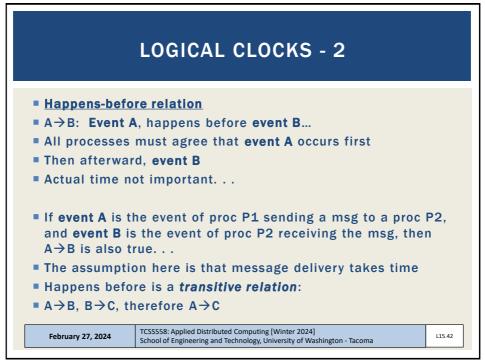
37



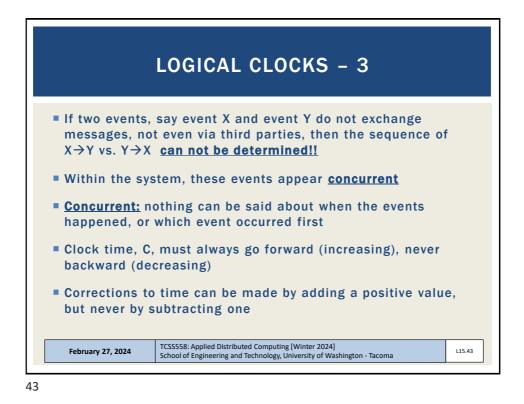


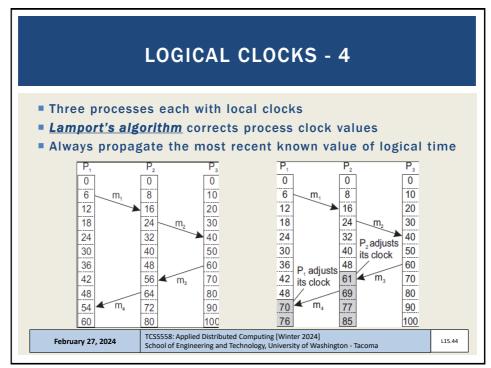


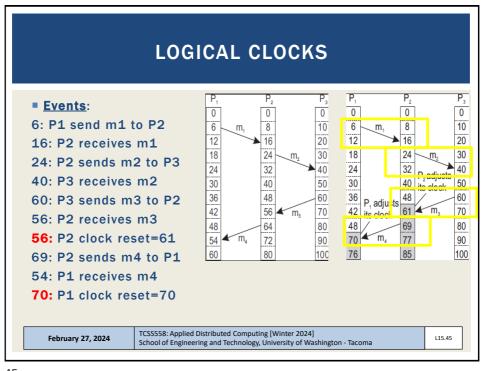


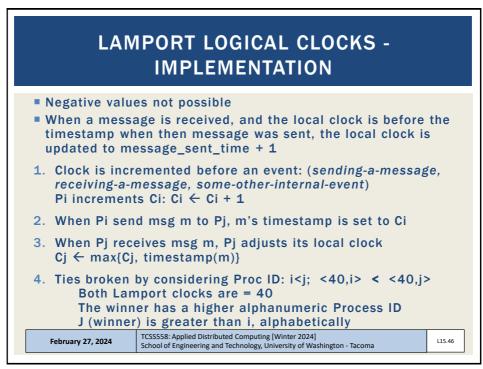




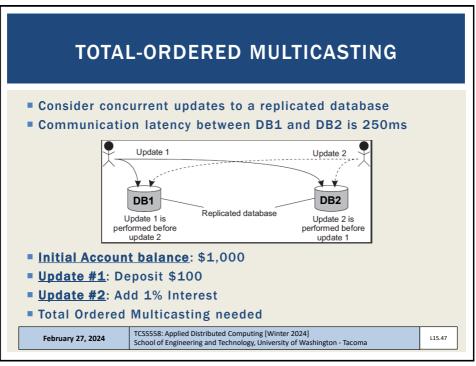


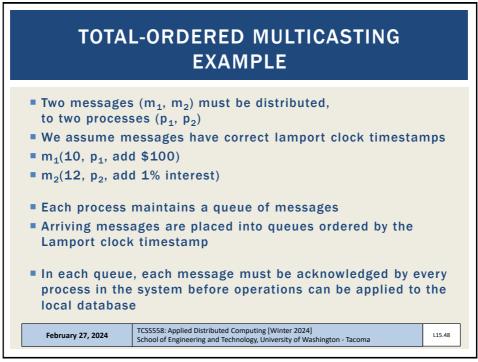


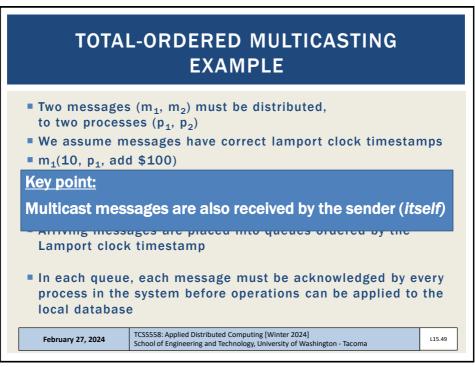


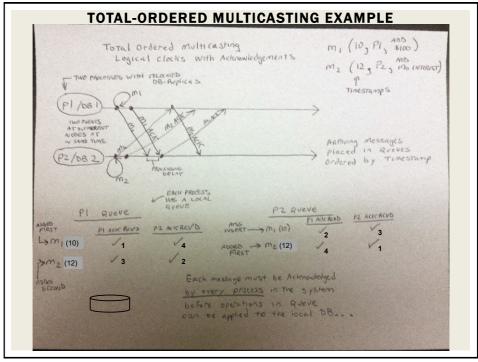


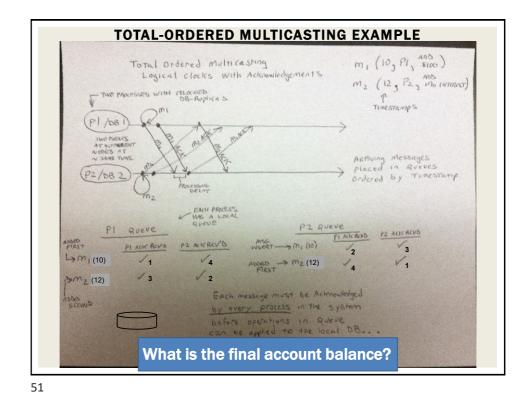


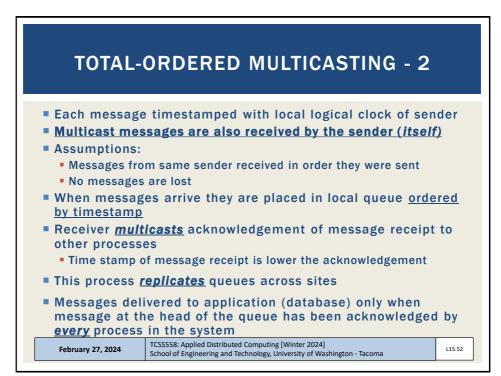


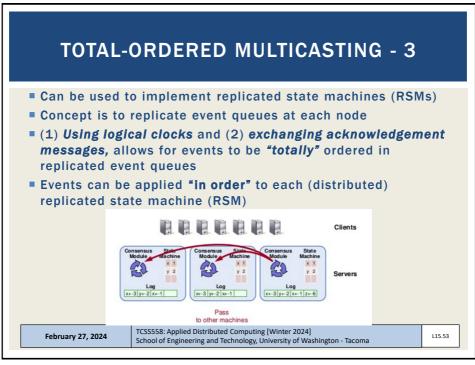


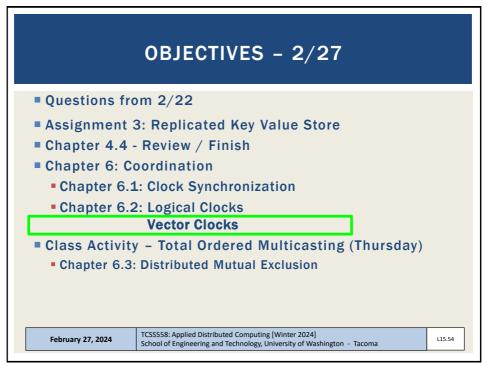




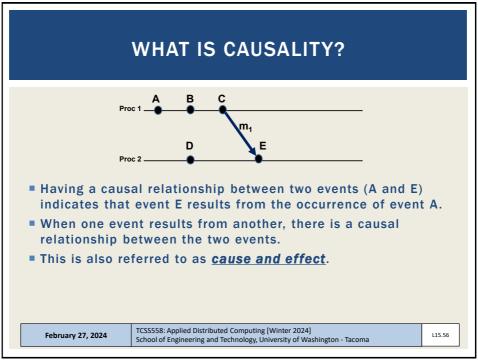




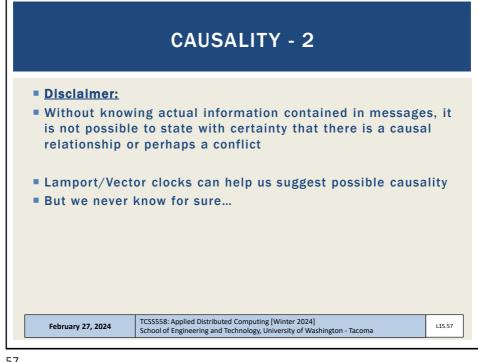


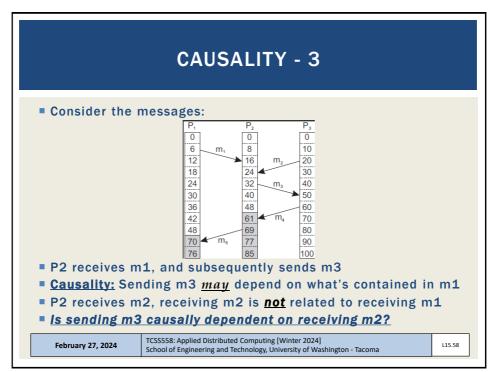


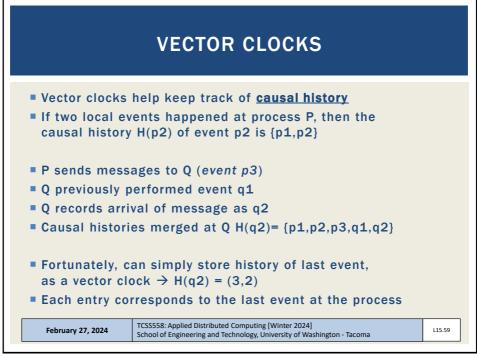
	VECTOR CLOCKS
Lamport cloc messages	ks don't help to determine causal ordering of
Vector clocks alternative	capture causal histories and can be used as an
But what is of	ausality?
February 27, 2024	TCSS558: Applied Distributed Computing [Winter 2024] School of Engineering and Technology, University of Washington - Tacoma

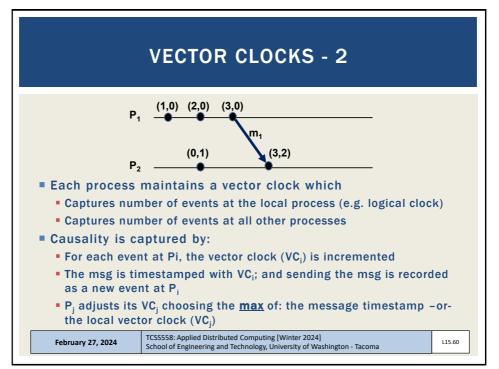






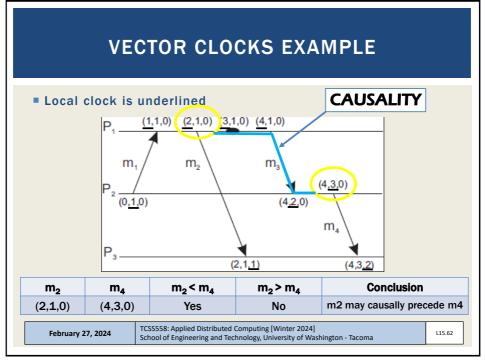


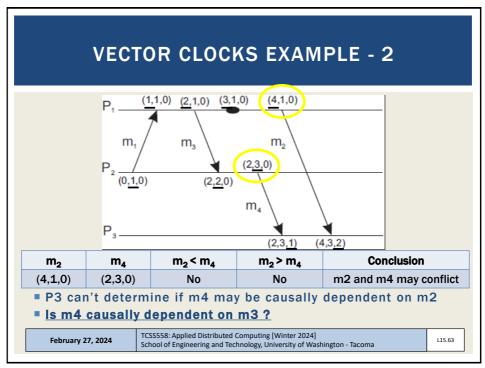


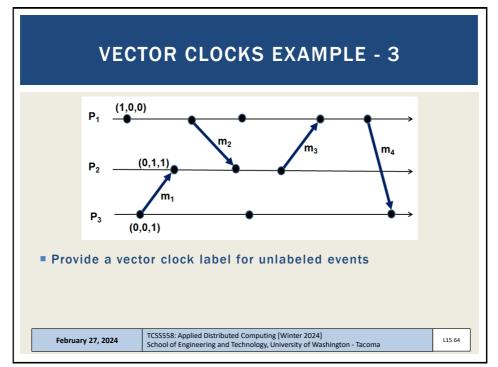


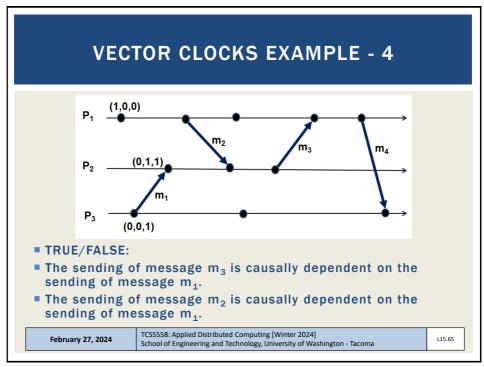


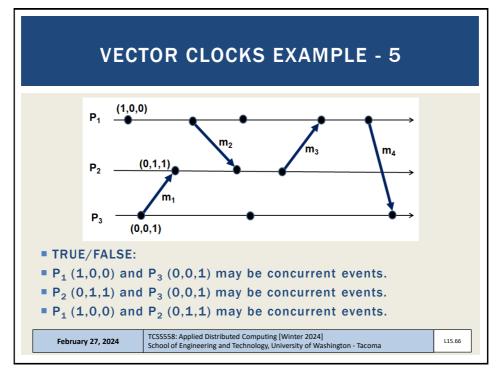
VECTOR CLOCKS - 3		
Pj knows the structure received mess	# of events at Pi based on the timestamps of the sage	
	many events have occurred at other processes estamps in the vector	
These events	"may be causally dependent"	
In other words message(s) to	s: they may have been necessary for the be sent	
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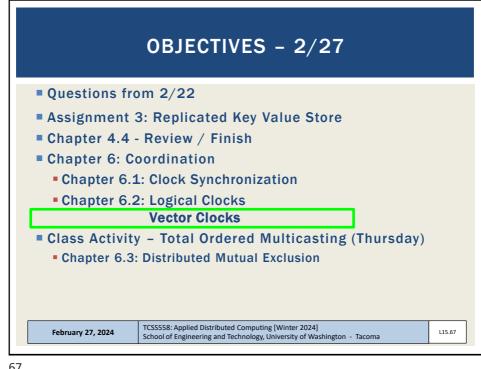


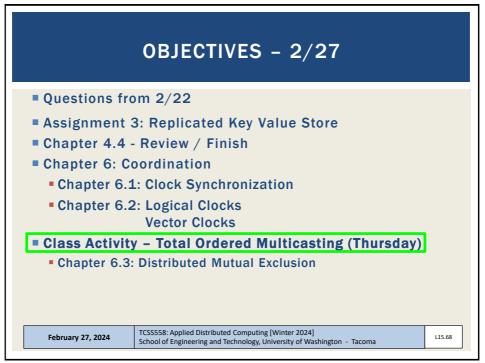


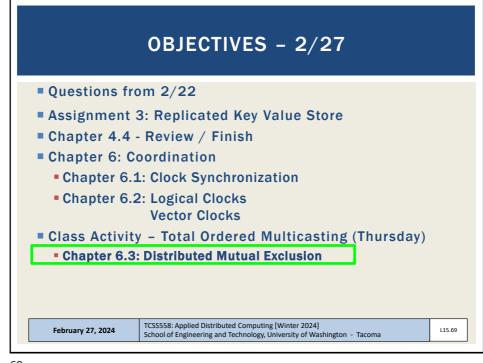


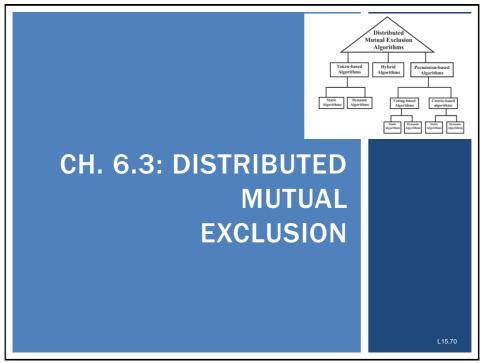


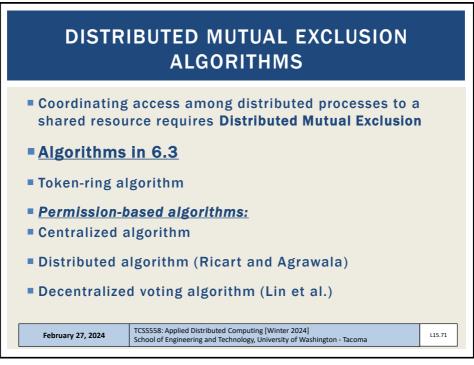


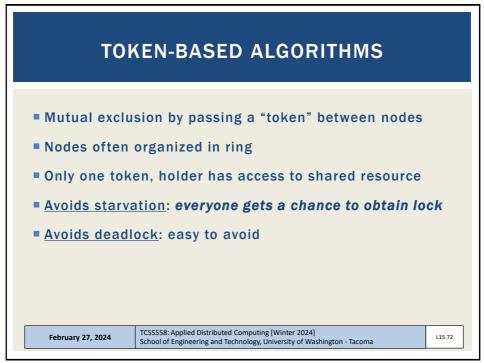






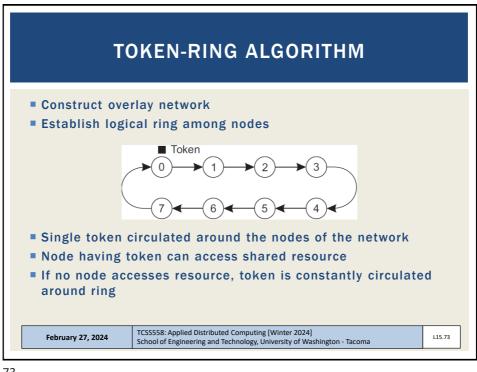




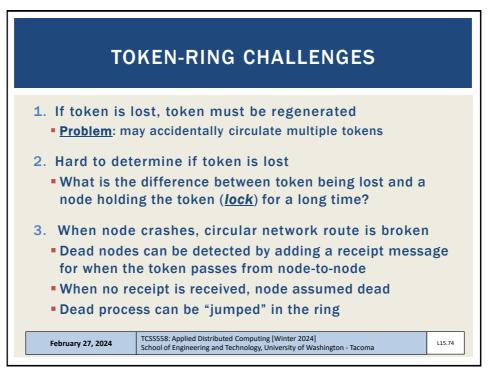


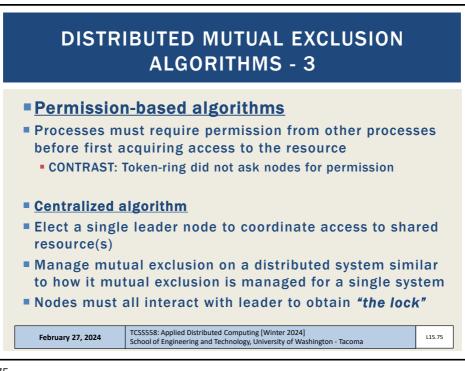


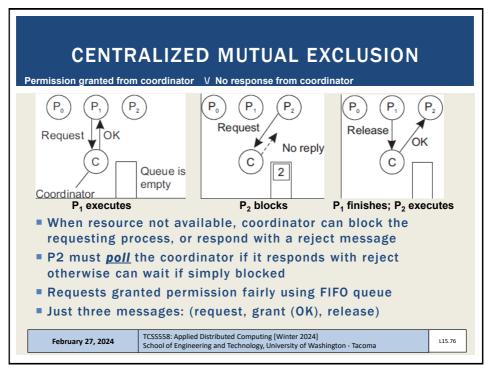
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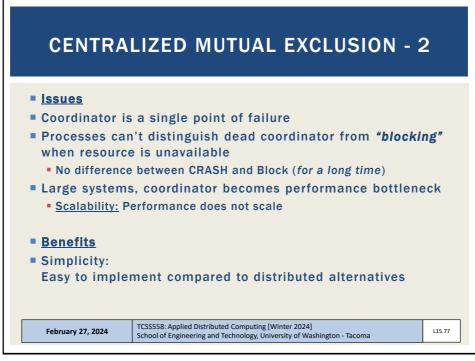
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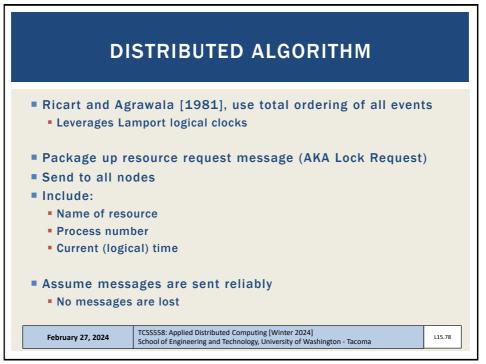


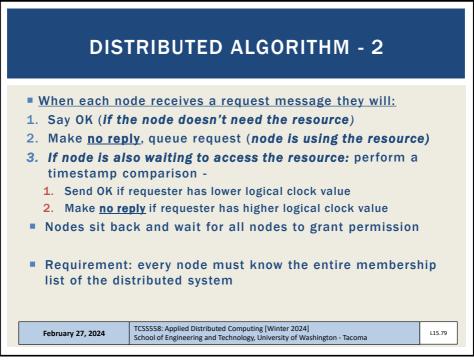


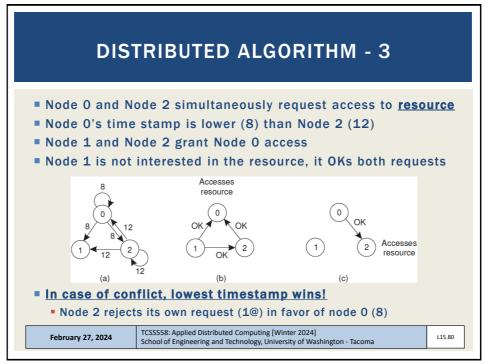


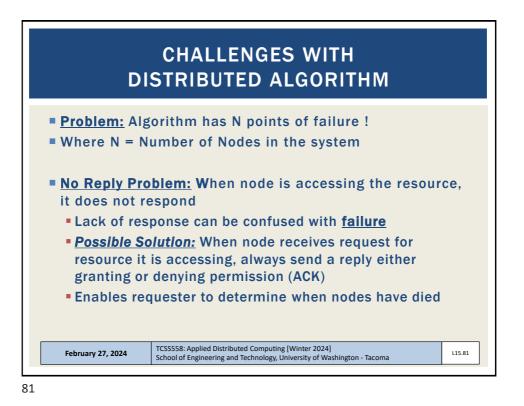


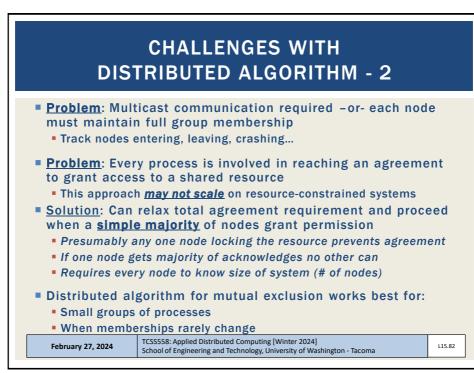




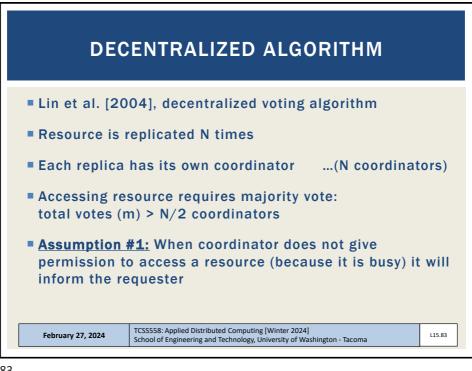


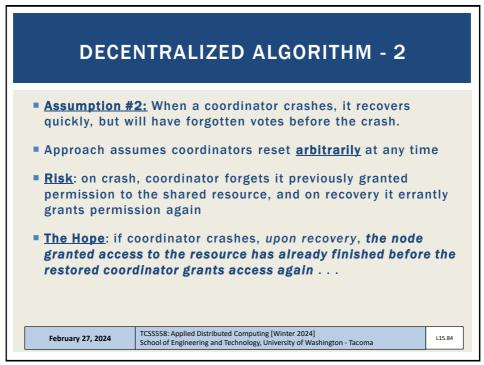


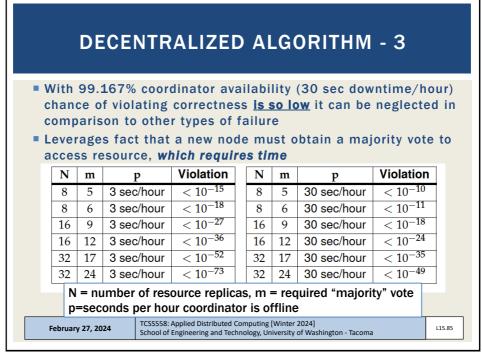


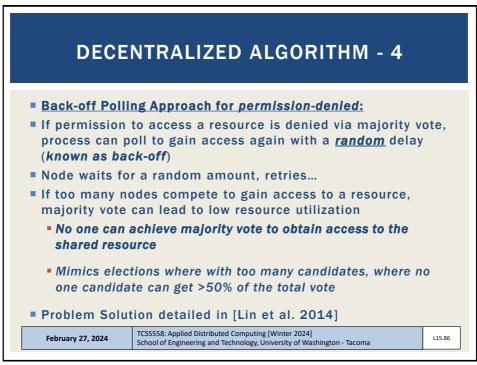


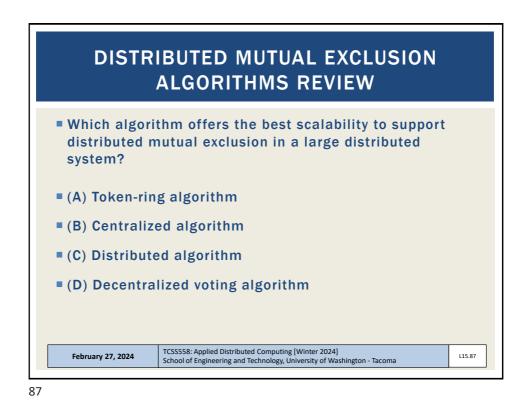


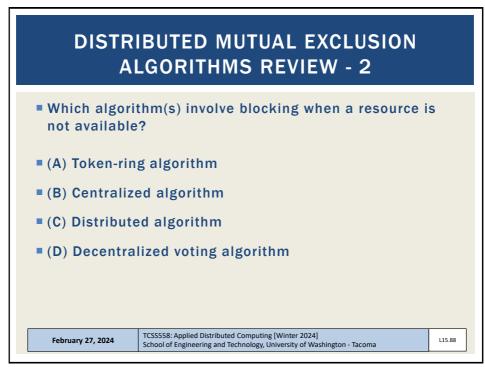


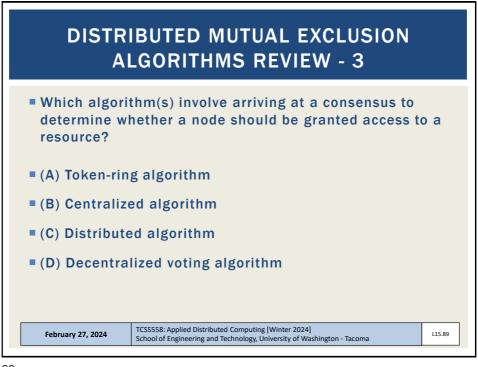


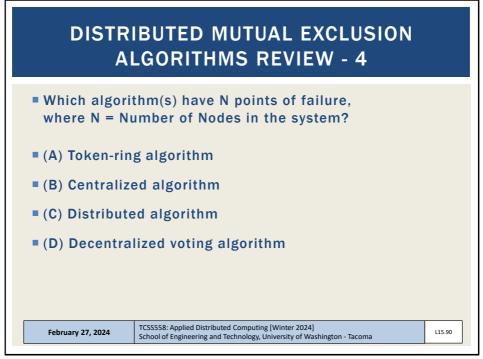












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