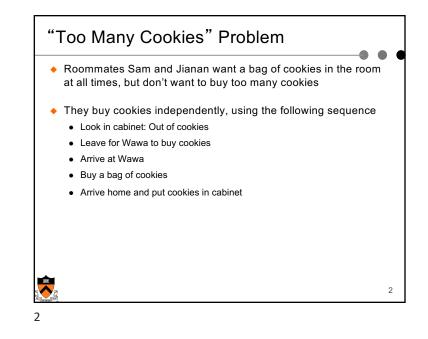
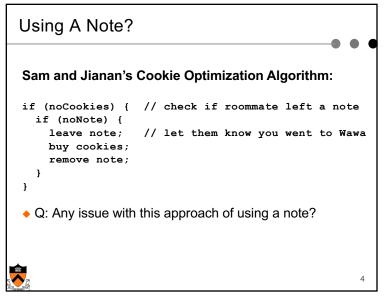
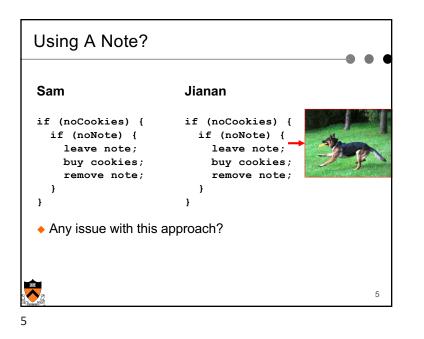
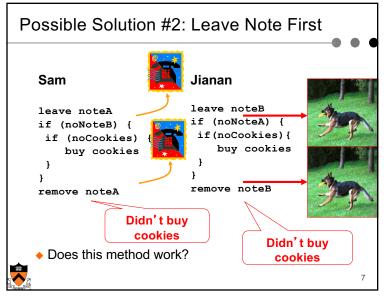


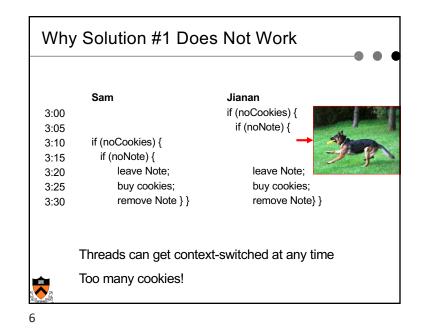
	Sam	Jianan
15:00	Look in cabinet: out of cookies	
15:05	Leave for Wawa	
15:10	Arrive at Wawa	Look in cabinet: out of cookies
15:15	Buy a bag of cookies	Leave for Wawa
15:20	Arrive home; put cookies away	Arrive at Wawa
15:25		Buy a bag of cookies
		Arrive home; put cookies away

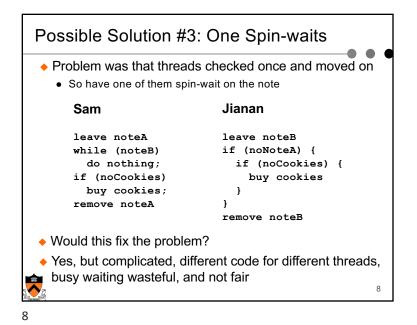


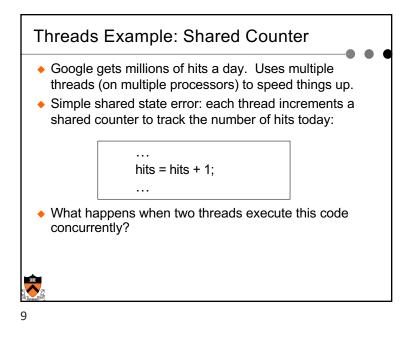


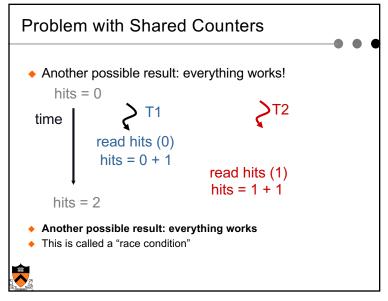


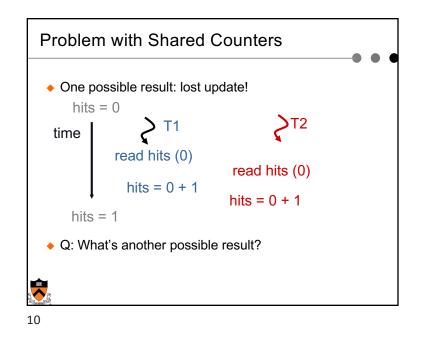


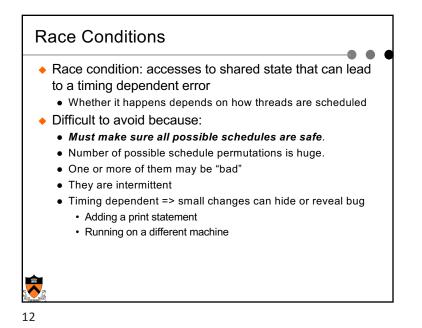


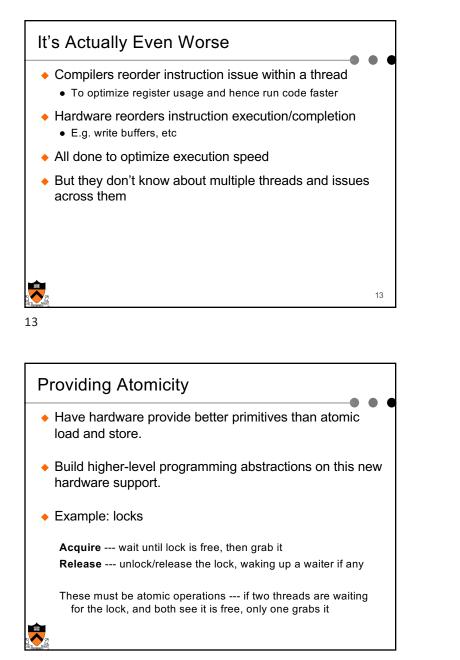


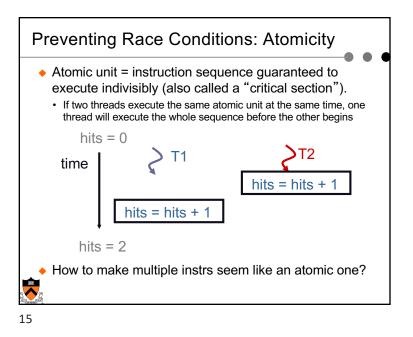


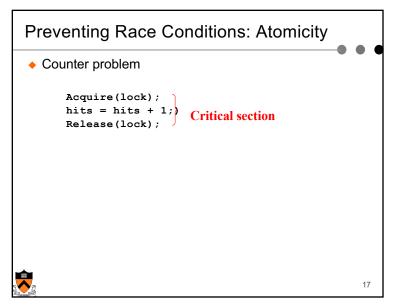


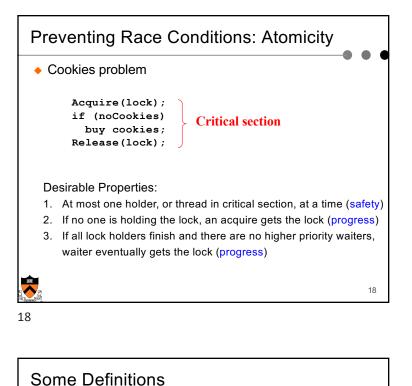












Some Delimitions

Synchronization:

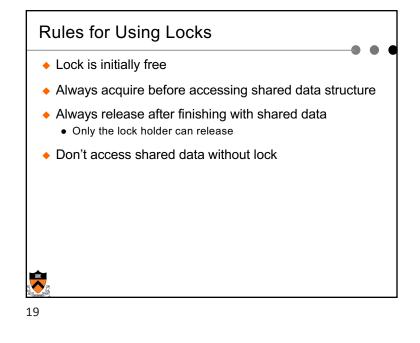
- Ensuring proper cooperation among threads
- Mutual exclusion, event synchronization

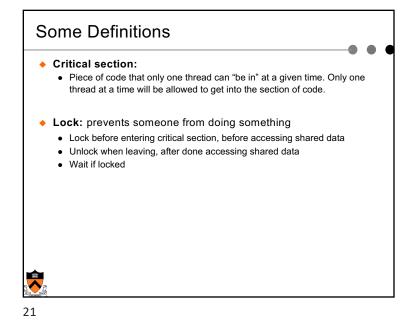
Mutual exclusion:

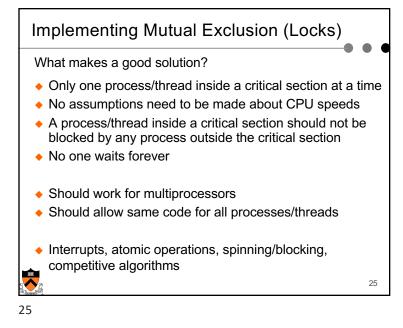
• Ensuring that only one thread does a particular thing at a time. One thread doing it excludes another from doing it at the same time.

• Event synchronization:

Making sure an event in one thread does not happen before/after an event in another thread

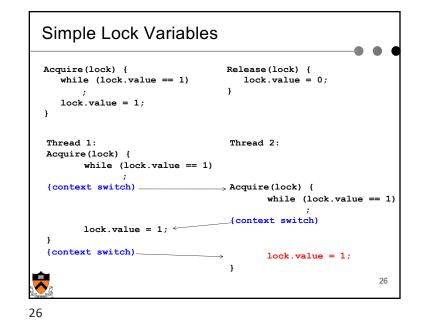


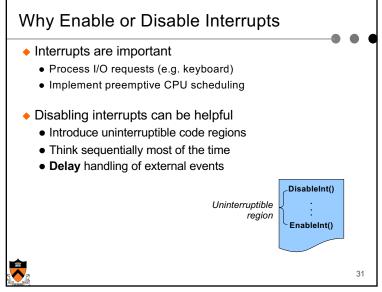




Prevent Context Switches in Critical Section

- On a uniprocessor, operations are atomic as long as a context switch doesn't occur
- Context switches are caused either by actions the thread takes (e.g. traps etc) or by external interrupts
- The former can be controlled
- Disable interrupts during certain portions of code?
 - Delay the handling of external events





31

27

