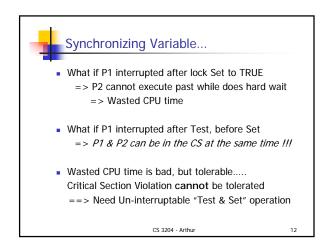
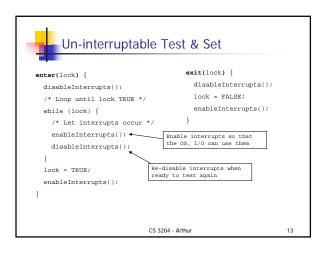
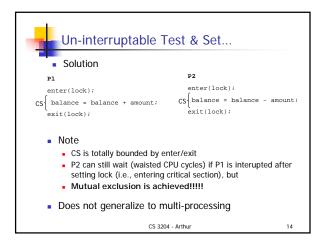
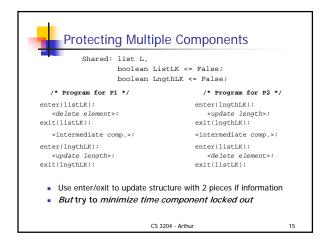


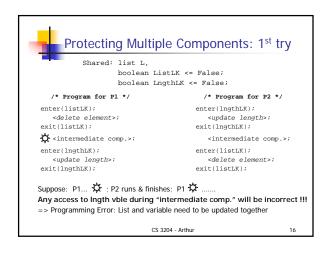
shared boolean lock <= FALSE; shared float balance;	
/* Program for P1 */	/* Program for P2 */
/* Acquire lock */	/* Acquire lock */
while(lock) {NULL;};	while(lock) {NULL;};
lock = TRUE;	lock = TRUE;
/* Execute critical section */	/* Execute critical section */
balance = balance + amount;	balance = balance - amount;
/* Release lock */	/* Release lock */
lock = FALSE;	lock = FALSE;
lock == FALSE	lock == TRUE
=> No process in CS	=> One process in CS
=> Any process can enter CS	=> No other process admitted to CS

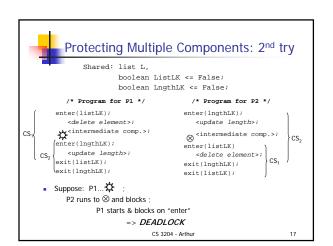


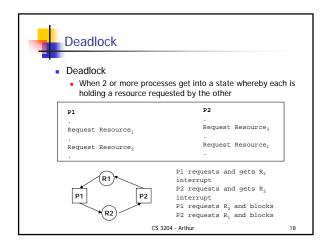


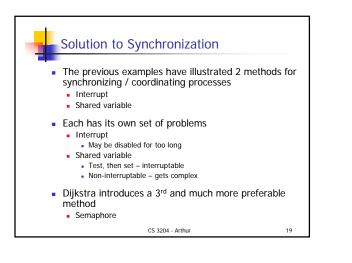




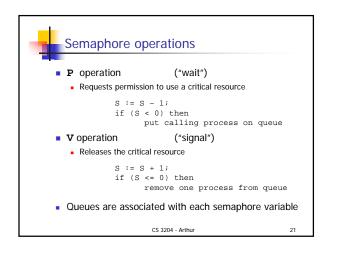


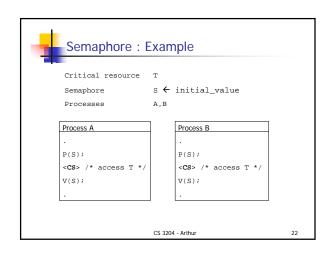


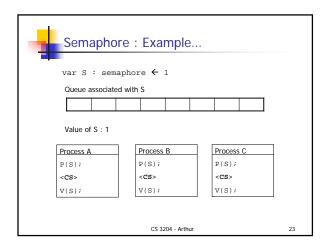


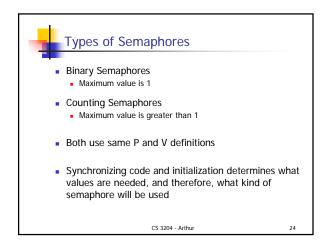


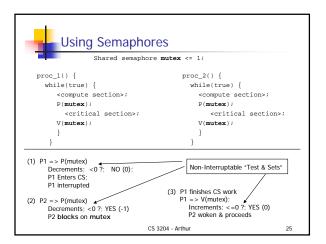


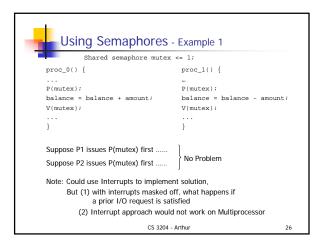


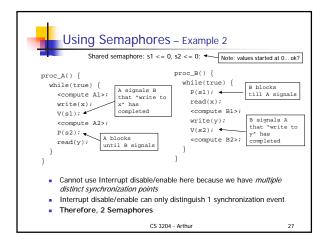


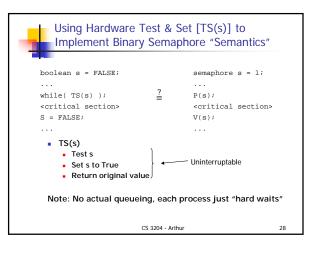


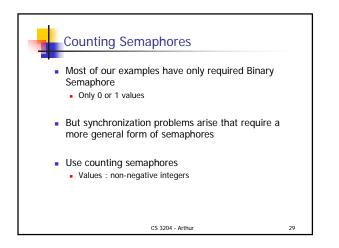


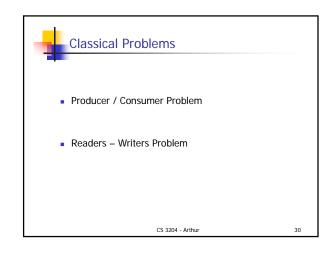


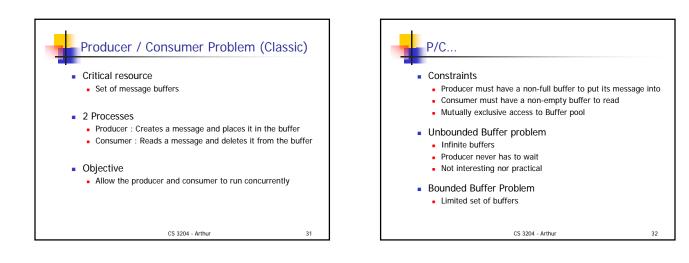


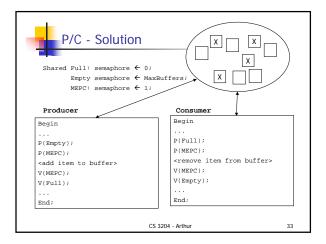


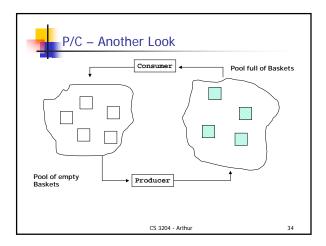


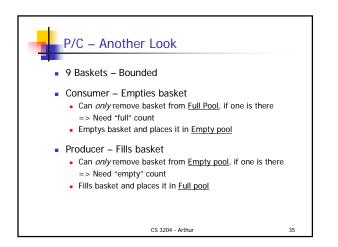












P/C - Another Look		
Shared semaphore: Emutex = 1,	Fmutex = 1; full = 0, empty = 9;	
Shared buf_type: buffer[9];		
producer() {	consumer() {	
buf_type *next, *here;	buf_type *next, *here;	
while(True) {	while(True) {	
produce_item(next);	P(full); /*Claim full buffer*/	
P(empty); /*Claim empty buffer*/	P(Fmutex); /*Manipulate the pool*.	
P(Emutex); /*Manipulate the pool*/	here = obtain(full);	
here = obtain(empty);	V(Fmutex);	
V(Emutex);	copy_buffer(here, next);	
copy_buffer(next, here);	P(Emutex); /*Manipulate the pool*	
P(Fmutex); /*Manipulate the pool*/	release(here, emptypool);	
release(here, fullpool);	V(Enmutex); /*Signal empty buffer	
V(Fmutex); /*Signal full buffer*/	V(empty);	
V(full);	consume_item(next);	
}	}	
}	}	

