

Minute Essay From Last Lecture
See slides from last time for solution. Several people got it right. Correlation with those who are keeping up with reading?
One person mentioned that without locking the results might be unpredictable, another that SWAP wouldn't be atomic. Um, hardware designers' problem?
Some people proposed solutions in which SWAP was — something other than what it is (exchange values of register and memory location).











Bounded Buffer Problem — Solution • Shared variables: buffer B(N); // empty, capacity N semaphore mutex(1); semaphore empty(N); semaphore full(0); Pseudocode for producer: Pseudocode for consumer: while (true) { while (true) { down(full); item = generate(); down(empty); down(mutex); down(mutex); item = get(B); put(item, B); up(mutex); up(mutex); up(empty); up(full); use(item); } }





















