Lecture 26: Synchronization with Monitors

- (maybe) debugging help
- Race conditions & Synchronization
- Monitors, wait, notify
- Bounded buffer problem
run()
for i = 0..10000
    tmp = counter
    counter = tmp + 1;
end

atomic operation, can't be interrupted.

1. read counter 
   → tmp

2. read counter 
   → tmp

3. write tmp + 1 → counter

4. read counter

5. write 2 → counter

6. write 10000 → counter
   [done]

2. writes tmp + 1 → counter

T1: tmp
T2: counter