Division of Continuing Education

Module 4: Threads in Go

Topic 2.2: Mutex

Correct Sharing

- Don't let 2 goroutines write to a shared variable at the same time!
- Need to restrict possible interleavings
- Access to shared variables cannot be interleaved

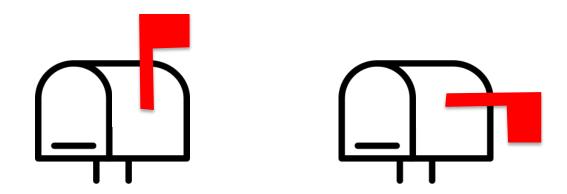
Mutual Exclusion

- Code segments in different goroutines which cannot execute concurrently
- Writing to shared variables should be mutually exclusive



Sync.Mutex

- A Mutex ensures mutual exclusion
- Uses a binary semaphore



- Flag up shared variable is in use
- Flag down shared variable is available

