# Condition Variables with Predicate Exercises

#### Lost Wakeup

- What is meant by the term "lost wakeup"?
- Write a program which demonstrates a lost wakeup

### Spurious Wakeup

What is meant by the term "spurious wakeup"?

## Lost Wakeup Avoidance

- Suggest how to avoid lost wakeups
- Modify your program so that it is not affected by lost wakeups

## Spurious Wakeup Avoidance

Suggest how to avoid spurious wakeups

#### Multiple Threads

- Modify your program so that there are three reader threads
- Modify the reader's task function to display the thread's ID
- Modify the writer's task function so that it
  - Calls notify\_one() once
  - Calls notify\_one() three times
  - Calls notify\_all() once
- Explain the results