

# Timeouts and Mutexes Exercises

# std::recursive\_mutex

- Briefly describe std::recursive\_mutex
- Is this a feature that programmers should use regularly?

# std::timed\_mutex

- Briefly describe std::timed\_mutex
- Is there another way to obtain this functionality?

# try\_lock\_for() and try\_lock\_until()

- Rewrite the try\_lock program from "Mutex Introduction" to use
  - try\_lock\_for() with std::timed\_mutex
  - try\_lock\_until() with std::timed\_mutex
  - try\_lock\_for() with std::unique\_lock
  - try\_lock\_until() with std::unique\_lock
- What do you observe?