

# Monitor Class Exercises

# Monitor Class

- Briefly describe what is meant by a "monitor" class

# Naive Solution Drawbacks

- A monitor class can be implemented as follows:
  - A mutex object as private data member
  - Each member function locks and unlocks the mutex when necessary
- Write a simple monitor class using this approach
- Write a simple program to exercise your class

# Naive Solution Drawbacks

- Give some drawbacks to this approach

# Wrapper Class

- Another option is to write a wrapper class around the object
  - The mutex is a member of the wrapper class
  - The wrapper class has the same public interface as the object
  - Its member functions lock the mutex before calling the object's member function
- Write a simple monitor class using this approach
- Write a simple program to exercise your class

# Wrapper Class Pros and Cons

- Give some advantages and disadvantages of this approach