```
#include <mutex>
 // Modified by Craig Scratchley. October 2021
 /* // commented out by Craig Scratchley
 class some big object
 {};
 void swap (some_big_object& lhs, some_big_object& rhs)
 */
 typedef int some_big_object; // added by Craig Scratchley
 class X
 {
 private:
   some_big_object some_detail;
   mutable std::mutex m;
 public:
   X(some_big_object const& sd):some_detail(sd){}
     if(&lhs==&rhs) 3,2,6

return; Chap 3,2,6

std: Union
   friend void swap(X& lhs, X& rhs)
                                               Il not lock right away, until required
      std::unique_lock lock_a(lhs.m,std::defer_lock);
                                                                // avoid deadl-ck

Chap 3.2.5.

you don't want 2 threads

run halfway, you want

at least 1 thread finish
      std::unique_lock lock_b(rhs.m,std::defer_lock);
std::lock(lock_a,lock_b); // lock fac
std::swap(lhs.some_detail,rhs.some_detail);
 };
 int main()
   // added by Craig Scratchley
   // create other threads to form multi-threaded program...
   X \times 1(3);
   X \times 2(4);
   swap(x1, x2);
```