```
void transfer(int from, int to, int sum)
    // deadlock
    auto& acc1 = _accounts[from];
    auto\& acc2 = \_accounts[to];
    lock_guard lk1(acc1.get_mutex());
    lock_guard lk2(acc2.get_mutex());
    std::cout << "Moving money from = " << from</pre>
  << " to = " << to << " sum = " << sum << "\n";
    if (acc1.balance() >= sum)
    {
        acc1.deposit(-sum);
        acc2.deposit(sum);
```



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```
nik@Nicolas-MacBook-Air:~/GitHub/cpp_sandbox/multithreading/thread_sync$
clang++ -std=c++14 deadlock.cpp
nik@Nicolas-MacBook-Air:~/GitHub/cpp_sandbox/multithreading/thread_sync$
./a.out
Moving money from = 0 to = 1 sum = 10
```