```
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
```

```
void transfer(int from, int to, int sum)
       // no deadlock
       auto& acc1 = _accounts[from];
       auto& acc2 = _accounts[to];
       std::lock(acc1.get_mutex(), acc2.get_mutex());
       lock_guard lk1(acc1.get_mutex(), std::adopt_lock);
       lock_guard lk2(acc2.get_mutex(), std::adopt_lock);
       std::cout << "Moving money from = " << from</pre>
       << " to = " << to << " sum = " << sum << "\n";</pre>
       if (acc1.balance() >= sum)
       {
           acc1.deposit(-sum);
           acc2.deposit(sum);
```