class AccountMonitor
{
    private:
    std::condition_variable insufficientFunds;
    std::mutex m;
    double balance;

    public:
    void withdraw(double s) {
        std::unique_lock<std::mutex> ml(m);
        while(balance < s)
        insufficientFunds.wait(&m);
        balance -= s;
    }

    void deposit(double s) {
        std::unique_lock<std::mutex> ml(m);
        balance += s;
        insufficientFunds.notify_all();
    }
};

LISTING 3.18
A monitor-based bank account class.