Readers and Writers: Monitor Solution

Variables:
- lock
- int writers = 0
- condvar writersCV;
- int readers = 0
- condvar readerCV;

read()

read lock;
while (writers > 0)
    writersCV->wait();
    reader++;

<read>

<write>

write()

writers++
while (writers > 0)
    readersCV->wait();

<write>

if (reader == 0)
    readerCV->signal();
else
    readersCV->signal();

l->r