

```
1  public class SimpleReadWriteLock implements ReadWriteLock {
2      int readers;
3      boolean writer;
4      Lock lock;
5      Condition condition;
6      Lock readLock, writeLock;
7      public SimpleReadWriteLock() {
8          writer = false;
9          readers = 0;
10         lock = new ReentrantLock();
11         readLock = new ReadLock();
12         writeLock = new WriteLock();
13         condition = lock.newCondition();
14     }
15     public Lock readLock() {
16         return readLock;
17     }
18     public Lock writeLock() {
19         return writeLock;
20     }
21     ...
22 }
```

**FIGURE 8.7** The SimpleReadWriteLock class: fields and public methods.