

```
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.