```
1   class LockOne implements Lock {
2     private boolean[] flag = new boolean[2];
3     // thread-local index, 0 or 1
4     public void lock() {
5       int i = ThreadID.get();
6       int j = 1 - i;
7       flag[i] = true;
8       while (flag[j]) {}          // wait until flag[j] == false
9     }
10    public void unlock() {
11      int i = ThreadID.get();
12      flag[i] = false;
13    }
14  }
```

FIGURE 2.4 Pseudocode for the LockOne algorithm.