

```
1 class Peterson implements Lock {  
2     private boolean[] flag = new boolean[2];  
3     private int victim;  
4     public void lock() {  
5         int i = ThreadID.get(); // either 0 or 1  
6         int j = 1-i;  
7         flag[i] = true;  
8         victim = i;  
9         while (flag[j] && victim == i) {}; // spin  
10    }  
11 }
```

FIGURE 7.1 The Peterson class (Chapter 2): the order of reads and writes in lines 7–9 is crucial to providing mutual exclusion.