

```

1  class Livelock implements Lock {
2      // thread-local index, 0 or 1
3      private boolean[] flag = new boolean[2];
4      public void lock() {
5          int i = ThreadID.get();
6          int j = 1 - i;
7          flag[i] = true;
8          while (flag[j]) {
9              flag[i] = false;
10             while (flag[j]) {}           // wait
11             flag[i] = true;
12         }
13     }
14     public void unlock() {
15         int i = ThreadID.get();
16         flag[i] = false;
17     }
18 }

```

FIGURE 2.7 Pseudocode for a lock algorithm that may livelock.