```
1   public class Assign23 {
2     int[] r = new int[3];
3     public Assign23(int init) {
4      for (int i = 0; i < r.length; i++)
5        r[i] = init;
6     }
7     public synchronized void assign(int v0, int v1, int i0, int i1) {
8       r[i0] = v0;
9       r[i1] = v1;
10    }
11    public synchronized int read(int i) {
12      return r[i];
13    }
14  }
```

FIGURE 5.10 A lock-based implementation of a (2,3)-assignment object.