

```
1 public class ConsensusProposal {
2     boolean proposed = new boolean[2];
3     int speed = new Integer[2];
4     int position = new Integer[2];
5     public ConsensusProposal(){
6         position[0] = 0;
7         position[1] = 0;
8         speed[0] = 3;
9         speed[1] = 1;
10    }
11    public decide(Boolean value) {
12        int i = myIndex.get();
13        int j = 1 - i;
14        proposed[i] = value;
15        while (true) {
16            position[i] = position[i] + speed[i];
17            if (position[i] > position[j] + speed[j]) // I am far ahead of you
18                return proposed[i];
19            else if (position[i] < position[j]) // I am behind you
20                return proposed[j];
21        }
22    }
23 }
```

FIGURE 5.17 Proposed consensus code for thread $i \in \{0, 1\}$.