

```

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  $i \in \{0, 1\}$ .