

```
1  class CASConsensus extends ConsensusProtocol {
2      private final int FIRST = -1;
3      private AtomicInteger r = new AtomicInteger(FIRST);
4      public Object decide(Object value) {
5          propose(value);
6          int i = ThreadID.get();
7          if (r.compareAndSet(FIRST, i)) // I won
8              return proposed[i];
9          else // I lost
10             return proposed[r.get()];
11     }
12 }
```

FIGURE 5.16 Consensus using compareAndSet().