

```
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().