

```

87  private void waitForPredecessor(QNode pred, QNode node,
88                                long startTime, long patience)
89      throws TimeoutException {
90      int[] stamp = {0};
91      if (pred == null) {
92          myNode.set(node);
93          return;
94      }
95      State predState = pred.state.get();
96      while (predState != State.RELEASED) {
97          if (predState == State.ABORTED) {
98              QNode temp = pred;
99              pred = pred.pred;
100             temp.state.set(State.FREE);
101         }
102         if (timeout(patience, startTime)) {
103             node.pred = pred;
104             node.state.set(State.ABORTED);
105             throw new TimeoutException();
106         }
107         predState = pred.state.get();
108     }
109     pred.state.set(State.FREE);
110     myNode.set(node);
111     return;
112 }

```

**FIGURE 7.29** The CompositeLock class: the `waitForPredecessor()` method.