

```
32     protected Node tryPop() throws EmptyException {
33         Node oldTop = top.get();
34         if (oldTop == null) {
35             throw new EmptyException();
36         }
37         Node newTop = oldTop.next;
38         if (top.compareAndSet(oldTop, newTop)) {
39             return oldTop;
40         } else {
41             return null;
42         }
43     }
44     public T pop() throws EmptyException {
45         while (true) {
46             Node returnNode = tryPop();
47             if (returnNode != null) {
48                 return returnNode.value;
49             } else {
50                 backoff.backoff();
51             }
52         }
53     }
```

FIGURE 11.4 The LockFreeStack<T> class: The pop() method alternates between trying to change the top field and backing off.