

```
35  public T deq() throws EmptyException {  
36      while (true) {  
37          Node first = head.get();  
38          Node last = tail.get();  
39          Node next = first.next.get();  
40          if (first == head.get()) {  
41              if (first == last) {  
42                  if (next == null) {  
43                      throw new EmptyException();  
44                  }  
45                  tail.compareAndSet(last, next);  
46              } else {  
47                  T value = next.value;  
48                  if (head.compareAndSet(first, next))  
49                      return value;  
50              }  
51          }  
52      }  
53  }
```

FIGURE 10.12 The LockFreeQueue<T> class: the deq() method.