

```

27     public void enq(T x) {
28         boolean mustWakeDequeuers = false;
29         Node e = new Node(x);
30         enqLock.lock();
31         try {
32             while (size.get() == capacity)
33                 notFullCondition.await();
34             tail.next = e;
35             tail = e;
36             if (size.getAndIncrement() == 0)
37                 mustWakeDequeuers = true;
38         } finally {
39             enqLock.unlock();
40         }
41         if (mustWakeDequeuers) {
42             deqLock.lock();
43             try {
44                 notEmptyCondition.signalAll();
45             } finally {
46                 deqLock.unlock();
47             }
48         }
49     }

```

FIGURE 10.4 The BoundedQueue class: the enq() method.