

```

1  public class HWQueue<T> {
2      AtomicReference<T>[] items;
3      AtomicInteger tail;
4      ...
5      public void enq(T x) {
6          int i = tail.getAndIncrement();
7          items[i].set(x);
8      }
9      public T deq() {
10         while (true) {
11             int range = tail.get();
12             for (int i = 0; i < range; i++) {
13                 T value = items[i].getAndSet(null);
14                 if (value != null) {
15                     return value;
16                 }
17             }
18         }
19     }
20 }

```

FIGURE 10.22 Queue used in Exercise 10.7.