

```
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.