

```
1 class CircularArray {
2     private int logCapacity;
3     private RecursiveAction[] currentTasks;
4     CircularArray(int logCapacity) {
5         this.logCapacity = logCapacity;
6         currentTasks = new RecursiveAction[1 << logCapacity];
7     }
8     int capacity() {
9         return 1 << logCapacity;
10    }
11    RecursiveAction get(int i) {
12        return currentTasks[i % capacity()];
13    }
14    void put(int i, RecursiveAction task) {
15        currentTasks[i % capacity()] = task;
16    }
17    CircularArray resize(int bottom, int top) {
18        CircularArray newTasks =
19            new CircularArray(logCapacity+1);
20        for (int i = top; i < bottom; i++) {
21            newTasks.put(i, get(i));
22        }
23        return newTasks;
24    }
25 }
```

FIGURE 16.13 The UnboundedDEQue class: the circular task array.