```
65    protected boolean relocate(int i, int hi) {
66      int hj = 0;
67      int j = 1 - i;
68      for (int round = 0; round < LIMIT; round++) {
69        List<T> iSet = table[i][hi];
70        T y = iSet.get(0);
71        switch (i) {
72        case 0: hj = hash1(y) % capacity; break;
73        case 1: hj = hash0(y) % capacity; break;
74        }
75        acquire(y);
76        List<T> jSet = table[j][hj];
77        try {
78          if (iSet.remove(y)) {
79            if (jSet.size() < THRESHOLD) {
80              jSet.add(y);
81              return true;
82            } else if (jSet.size() < PROBE_SIZE) {
83              jSet.add(y);
84              i = 1 - i;
85              hi = hj;
86              j = 1 - j;
87            } else {
88              iSet.add(y);
89              return false;
90            }
91          } else if (iSet.size() >= THRESHOLD) {
92            continue;
93          } else {
94            return true;
95          }
96        } finally {
97          release(y);
98        }
99      }
100     return false;
101   }
```

FIGURE 13.27 PhasedCuckooHashSet<T> class: the relocate() method.