

```
13  public boolean add(T x) {
14      int myBucket = BucketList.hashCode(x) % bucketSize.get();
15      BucketList<T> b = getBucketList(myBucket);
16      if (!b.add(x))
17          return false;
18      int setSizeNow = setSize.getAndIncrement();
19      int bucketSizeNow = bucketSize.get();
20      if (setSizeNow / bucketSizeNow > THRESHOLD)
21          bucketSize.compareAndSet(bucketSizeNow, 2 * bucketSizeNow);
22      return true;
23  }
```

FIGURE 13.18 LockFreeHashSet<T> class: add() method.