

```

24  private BucketList<T> getBucketList(int myBucket) {
25      if (bucket[myBucket] == null)
26          initializeBucket(myBucket);
27      return bucket[myBucket];
28  }
29  private void initializeBucket(int myBucket) {
30      int parent = getParent(myBucket);
31      if (bucket[parent] == null)
32          initializeBucket(parent);
33      BucketList<T> b = bucket[parent].getSentinel(myBucket);
34      if (b != null)
35          bucket[myBucket] = b;
36  }
37  private int getParent(int myBucket){
38      int parent = bucketSize.get();
39      do {
40          parent = parent >> 1;
41      } while (parent > myBucket);
42      parent = myBucket - parent;
43      return parent;
44  }

```

**FIGURE 13.19** LockFreeHashSet<T> class: If a bucket is uninitialized, initialize it by adding a new sentinel. Initializing a bucket may require initializing its parent.