

```
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.