```
1import java.util.Comparator;
 2 import java.util.Iterator;
 3import java.util.LinkedList;
4 import java.util.Queue;
6 public class BTree<E>
7 {
8
      public Node<E> root;
9
      public Comparator<E> comp;
10
      public int order;
11
      public BTree(int theOrder, Comparator<E> theComp)
12
13
14
          order = theOrder;
15
          comp = theComp;
16
          root = new Node<E>(theOrder, theComp);
17
18
19
      public void add(E item)
20
21
          Node<E> node = findLeaf(root, item);
22
23
          node.leafAdd(item);
24
25
          while(node.hasOverflow()) {
26
              node.split();
27
              node = node.parent;
28
29
          if(root.parent != null) {
30
              root = root.parent;
31
          }
32
33
      }
34
35
      private Node<E> findLeaf(Node<E> curr, E item)
36
      {
37
          while(!curr.isLeaf()) {
38
              curr = curr.childToFollow(item);
39
40
          return curr;
41
      }
42
43
      public boolean contains(E item)
44
      {
45
          return findNode(root, item) != null;
46
      }
47
48
      private Node<E> findNode(Node<E> curr, E item)
49
50
          if(curr.contains(item)) {
51
              return curr;
52
53
          else if(curr.isLeaf()) {
54
              return null;
55
          }
56
          else {
57
              return findNode(curr.childToFollow(item), item);
```