```
// Multiple correct solutions accepted.
 2
 3
 4
     // COPY CONSTRUCTOR (the reverse)
 5
     template<typename ItemType>
 6
     LinkedBag<ItemType>::LinkedBag(const LinkedBag<ItemType>& aBag, const string&
     mode) {
 7
 8
         itemCount = aBag.itemCount;
 9
         Node<ItemType>* origChainPtr = aBag.headPtr;
10
11
         if (origChainPtr == nullptr) {
12
             headPtr = nullptr;
13
14
         else {
15
             headPtr = new Node<ItemType>(origChainPtr->getItem());
16
             origChainPtr = origChainPtr->getNext();
17
18
             while (origChainPtr != nullptr)
19
20
                 Node<ItemType>* newNodePtr = new
                 Node<ItemType>(origChainPtr->getItem(), headPtr);
21
                 headPtr = newNodePtr;
22
                 origChainPtr = origChainPtr->getNext();
23
24
25
     } // end COPY CONSTRUCTOR (the reverse)
26
27
     /* OUTPUT
28
29
     !Display bag : e l e c t r i c a l
30
     ----> 10 item(s) total
31
32
     !Display bag : lacirtcele
33
     ----> 10 item(s) total
34
     * /
35
36
37
38
39
     // removeLastThree
40
     // Assumption: It is OK to use either the head item or the tail item
     // to replace the item which we need to remove.
41
     template<typename ItemType>
42
43
    bool LinkedBag<ItemType>::removeLastThree(const ItemType& itemToRemove)
44
     {
45
         const int totalToRemove = 3;
46
         int totalRemoved = 0;
47
48
         LinkedBag<ItemType>* revBag{ new LinkedBag(*this, "reverse") };
         Node<ItemType>* curPtr{ revBag->headPtr };
49
50
51
         while (curPtr != nullptr && totalRemoved != totalToRemove)
52
53
             if (itemToRemove != curPtr->getItem()) {
54
                 curPtr = curPtr->getNext();
55
             else {
56
57
                 curPtr->setItem(revBag->headPtr->getItem());
58
                 Node<ItemType>* nodeToDelete{ revBag->headPtr };
59
                 revBag->headPtr = revBag->headPtr->getNext();
60
61
                 curPtr = curPtr->getNext();
62
63
                 nodeToDelete->setNext(nullptr);
```

```
delete nodeToDelete;
64
65
               nodeToDelete = nullptr;
66
67
               totalRemoved++;
68
               itemCount--;
           }
69
       }
70
71
72
       LinkedBag<ItemType>* retBag{ new LinkedBag(*revBag, "reverse") };
73
        this->headPtr = retBag->headPtr;
74
75
       return true;
76
    } // end removeLastThree
77
78
   /* OUTPUT
79
80
   ---- removeLastThree TEST ----
81
82
    !Display bag: reenignelacirtcele
     ----> 18 item(s) total
83
84
85
    !Display bag: reenignllacirtc
     ----> 15 item(s) total
86
87
88
   * /
```