```
 1  #include <stdio.h>                                              57
 2  #include <stdlib.h>                                             58      exit(0);
 3  #include "linked-list.h"                                        59  }
 4                                                                  60
 5  /****                                                           61
 6   *
 7   * This is a testing program for the simple implementation in linked-list{h,c}.
 8   *
 9   */
10
11  /**
12   * Print the given list with the given debugging message one line above the
13   * list output.
14   */
15  void print(LinkedList* l, char* msg) {
16      printf("List contents, should be %s\n                        ", msg);
17      printList(l);
18      printf("\n");
19  }
20
21  /**
22   * Allocate a linked list, insert some values in it, and print it out after
23   * each insert.
24   */
25  int main () {
26      LinkedList* l;
27
28      l = newLinkedList();
29      print(l, "empty");
30
31      insert(l, newListNode(0), 0);
32      print(l, "0");
33
34      insert(l, newListNode(1), 1);
35      print(l, "0,1");
36
37      insert(l, newListNode(2), 2);
38      print(l, "0,1,2");
39
40      insert(l, newListNode(3), 3);
41      print(l, "0,1,2,3");
42
43      insert(l, newListNode(-1), 0);
44      print(l, "-1,0,1,2,3");
45
46      insert(l, newListNode(10), 3);
47      print(l, "-1,0,1,10,2,3");
48
49      insert(l, newListNode(100), 6);
50      print(l, "-1,0,1,10,2,3,100");
51
52      insert(l, newListNode(100), l->length+1);
53      print(l, "-1,0,1,10,2,3,100");
54
55      insert(l, newListNode(100), -1);
56      print(l, "-1,0,1,10,2,3,100");
```