```
cout << "Creating an empty queue and empty stack with type double" << endl;</pre>
              LinkedQueue<double> lq;
47
              LinkedStack<double> ls;
              cout << ls << endl;</pre>
              cout << lq << endl;
 50
              cout << endl;</pre>
 51
              cout << "Filling queue and stack with numbers 0.1-9.1" << endl;</pre>
 52
              for (double i = 0.1; i < 10.1; ++i) {
                  lq.enqueue(i);
 54
                  ls.push(i);
 56
 57
              cout << ls << endl;
              cout << lq << endl;
              cout << endl;</pre>
              cout << "checking top of both stack and queue" << endl;</pre>
 62
              cout << ls.top() << endl;</pre>
              cout << lq.first() << endl;</pre>
 64
              cout << endl;</pre>
              cout << "popping/dequeueing one number from stack and queue" << endl;</pre>
 67
              ls.pop();
              lq.dequeue();
              cout << ls << endl;
              cout << lq << endl;
              cout << endl;</pre>
 72
              cout << "Checking if stack/queue is empty" << endl;</pre>
              cout << boolalpha << lq.isEmpty() << endl;</pre>
              cout << boolalpha << ls.isEmpty() << endl;</pre>
              cout << endl;</pre>
              cout << "Clearing both queue/stack" << endl;</pre>
 78
              ls.~LinkedStack();
 80
              lq.~LinkedQueue();
              cout << ls << endl;
 81
 82
              cout << lq << endl;
 83
              cout << endl;</pre>
 84
              cout << "Checking if stack/queue is empty" << endl;</pre>
              cout << boolalpha << lq.isEmpty() << endl;</pre>
 86
              cout << boolalpha << ls.isEmpty() << endl;</pre>
 87
              cout << endl;</pre>
              cout << "Creating an empty queue and empty stack with type string" << endl;</pre>
 90
             LinkedQueue<string> lq2;
              LinkedStack<string> ls2;
              cout << ls2 << endl;
              cout << lq2 << endl;
94
              cout << endl;</pre>
96
              cout << "Filling queue and stack with strings 0-9" << endl;</pre>
              for (int i = 0; i < 10; ++i) {
98
 99
                  stringstream ss;
100
                  ss << i;
                  lq2.enqueue(ss.str());
102
                  ls2.push(ss.str());
104
              cout << ls2 << endl;
              cout << lq2 << endl;
105
106
              cout << endl;</pre>
              cout << "checking top of both stack and queue" << endl;</pre>
108
              cout << ls2.top() << endl;</pre>
110
              cout << lq2.first() << endl;</pre>
              cout << endl;</pre>
111
112
113
              cout << "popping/dequeueing one string from stack and queue" << endl;</pre>
              ls2.pop();
114
              lq2.dequeue();
115
              cout << ls2 << endl;
116
117
              cout << lq2 << endl;
118
              cout << endl;</pre>
119
              cout << "Checking if stack/queue is empty" << endl;</pre>
120
121
              cout << boolalpha << lq2.isEmpty() << endl;</pre>
              cout << boolalpha << ls2.isEmpty() << endl;</pre>
122
              cout << endl;
123
124
125
              cout << "Clearing both queue/stack" << endl;</pre>
126
              ls2.~LinkedStack();
              lq2.~LinkedQueue();
127
128
              cout << ls2 << endl;
              cout << lq2 << endl;
129
130
              cout << endl;</pre>
131
132
              cout << "Checking if stack/queue is empty" << endl;</pre>
              cout << boolalpha << lq2.isEmpty() << endl;</pre>
133
              cout << boolalpha << ls2.isEmpty() << endl;</pre>
134
              cout << endl;
135
136
137
              system("pause");
138
              return 0;
139
```