```
import java.util.Iterator;
1
    import java.util.LinkedList;
2
3
4
    public class SearchMessagesByUser implements Iterator<MessageMomento>{
         private LinkedList<MessageMomento> collection;
 5
 6
         public SearchMessagesByUser(LinkedList<MessageMomento> givenCollection)
 7
8
             this.collection = givenCollection;
9
         }
10
11
        @Override
12
         public boolean hasNext() {
13
14
             LinkedList<MessageMomento> copyList = null;
15
             for(MessageMomento message : this.collection)
16
17
                 copyList.addFirst(message);
18
19
20
             copyList.pop();
21
22
             if (copyList.getFirst() != null)
23
24
                 return false;
25
             }else{
26
                 return true;
27
28
         }
29
30
        @Override
31
         public MessageMomento next() {
32
             MessageMomento returnItem = null;
33
34
             if (this.hasNext())
35
36
             {
                 MessageMomento cycledItem = this.collection.pop();
37
                 this.collection.addLast(cycledItem);
38
                 returnItem = this.collection.getFirst();
39
             }
40
41
             return returnItem;
42
        }
43
    }
44
```