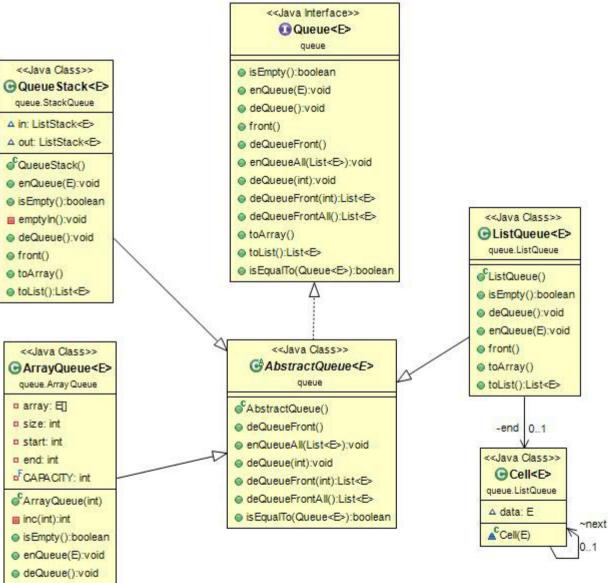




Queue Thomas Jürgensen

Informatik II

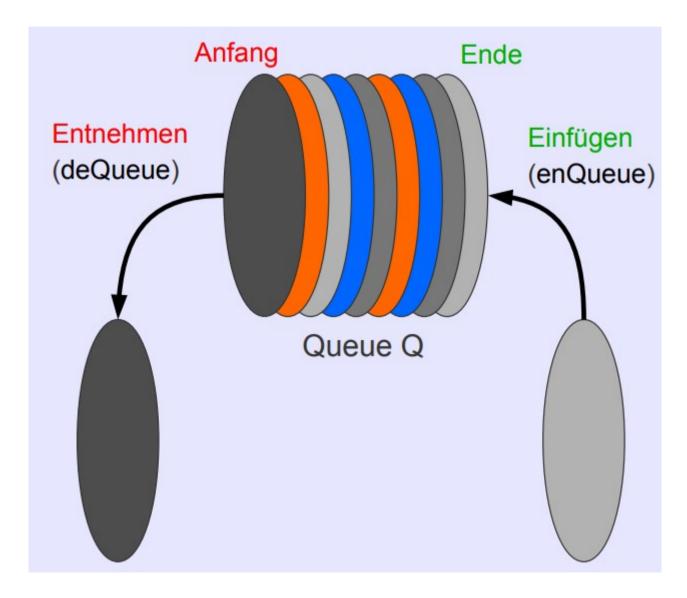




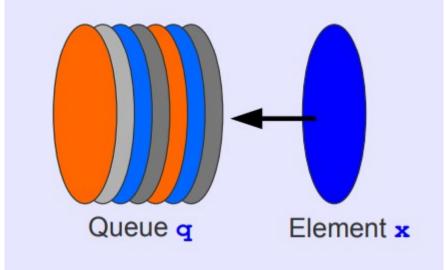
front()toArray()toList():List<E>





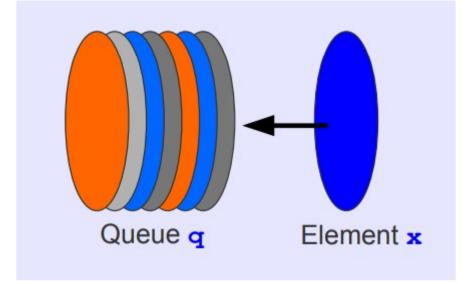


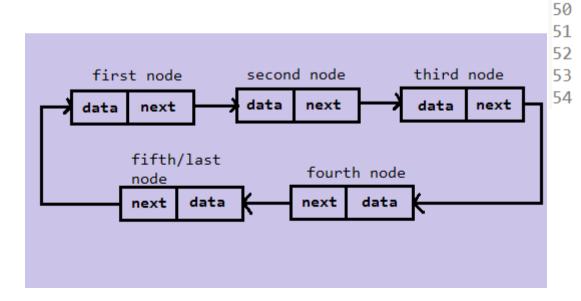




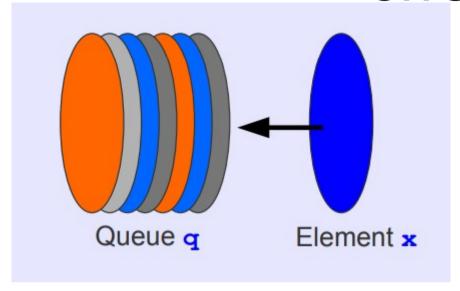


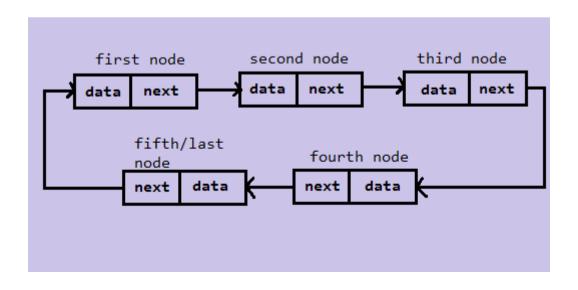
41⊜ •42





```
@Override
public void enQueue(E e) {
    Cell<E> newCell = new Cell<E>(e);
    if (isEmpty()) {
        end = newCell;
        end.next = newCell;
    } else {
        newCell.next = end.next;
        end.next = newCell;
        end = newCell;
        end = newCell;
    }
    return;
}
```

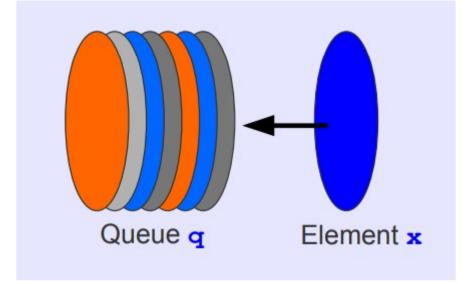


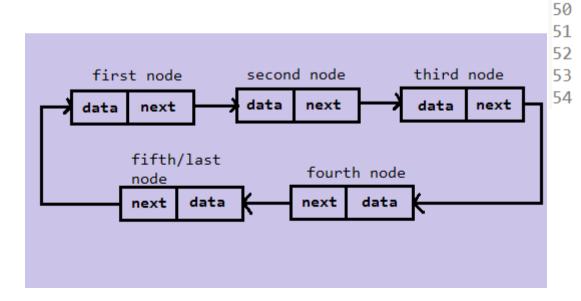






41⊜ •42

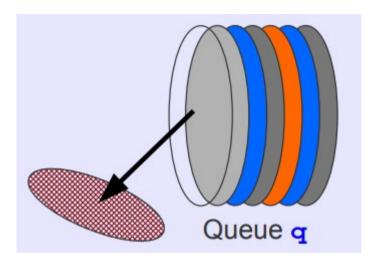




```
@Override
public void enQueue(E e) {
    Cell<E> newCell = new Cell<E>(e);
    if (isEmpty()) {
        end = newCell;
        end.next = newCell;
    } else {
        newCell.next = end.next;
        end.next = newCell;
        end = newCell;
        end = newCell;
    }
    return;
}
```

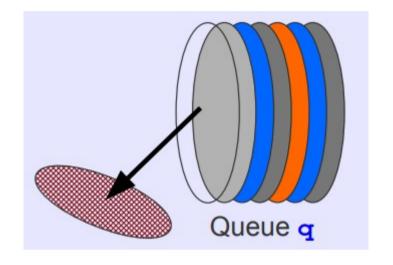


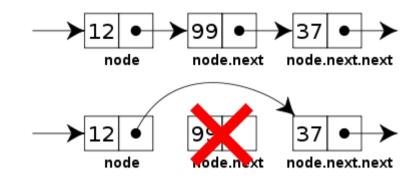






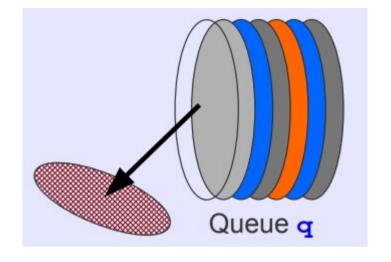
deQueue

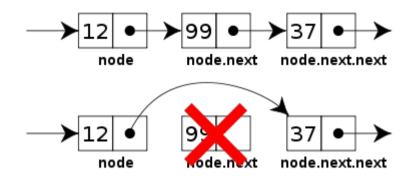






deQueue





```
public void deQueue() {
30⊜
31
           if (isEmpty())
32
               throw new QueueError("Queue is empty!");
           if (end.next == end) {
33
               end = null;
34
35
           } else {
36
               end.next = end.next.next;
37
38
           return;
39
```



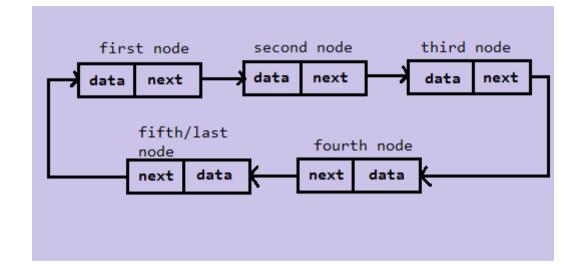




FACH HOCHSCHULE LÜBECK

toList

University of Applied Sciences





toList

```
third node
                  second node
first node
                  data
                         next
                                      data
                                             next
      next
data
     fifth/last
                         fourth node
     node
                               data
                         next
     next
            data
```

```
@Override
70⊜
       public List<E> toList() {
71
72
            List<E> list = new LinkedList<E>();
            if (!isEmpty()) {
73
74
               Cell < E > tmp = end;
               while (tmp.next != end) {
75
                    list.add(tmp.next.data);
76
77
                    tmp = tmp.next;
78
79
               // add last (missing) element
80
                list.add(tmp.next.data);
81
82
           return list;
83
84
```





