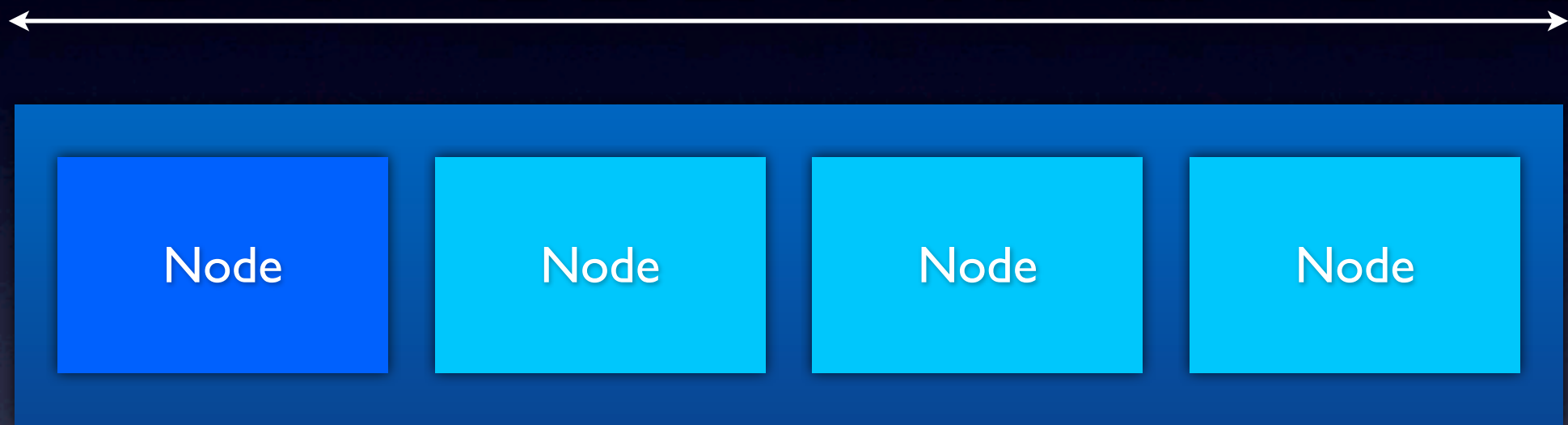
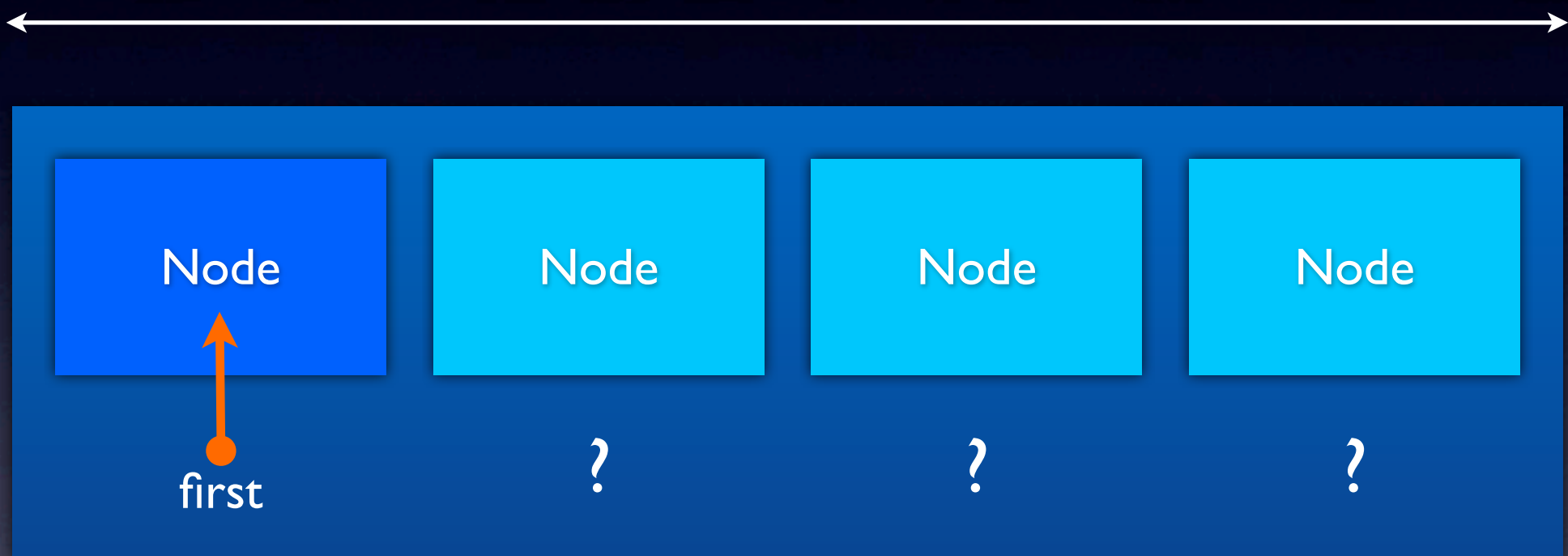


Linked List

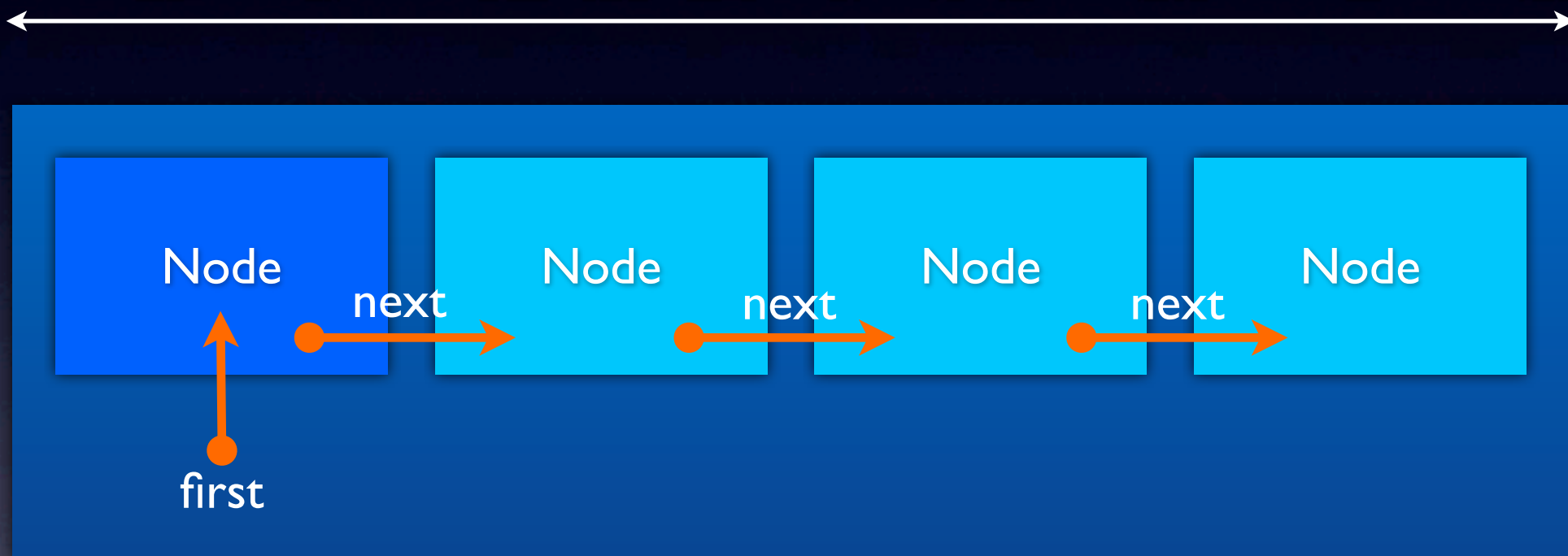
Linked List



Linked List



Linked List



next = Referenz auf die nächste Node

```
public class SinglyLinkedList<T> {  
  
    private int size = 0;  
  
    private static class Node<T> {  
        T value;  
        Node<T> next;  
  
        private Node(T value, Node<T> next) {  
            this.value = value;  
            this.next = next;  
        }  
    }  
  
    Node<T> first = null;  
}
```

Node

Node

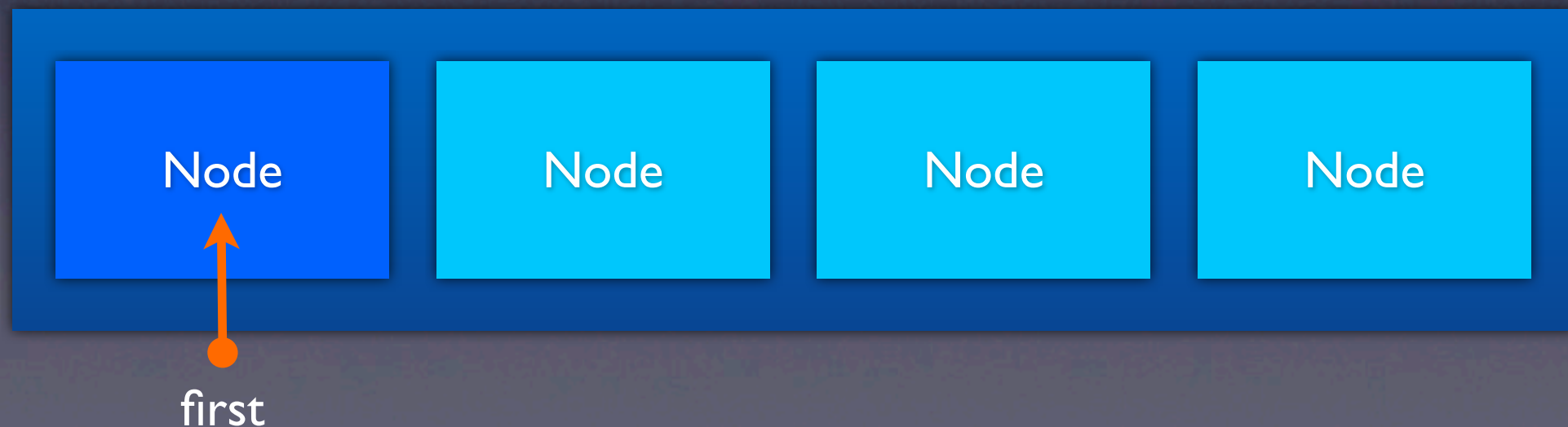
Node

Node

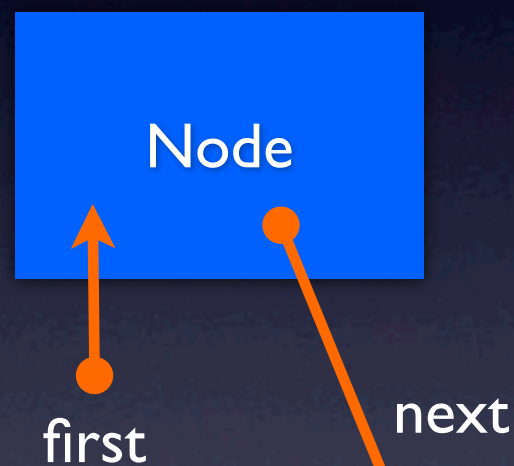
Erstes Element hinzufügen

Node

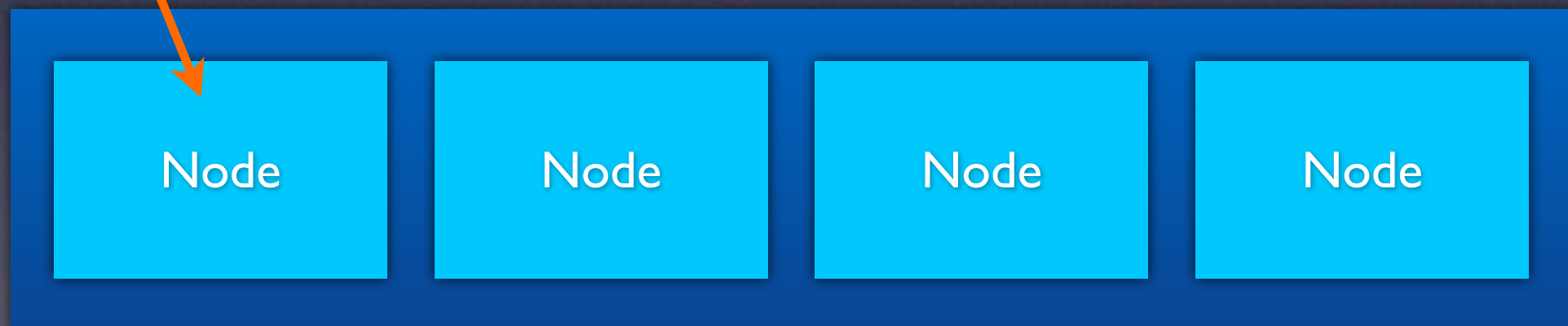
```
public void addFirst(T obj) {  
    first = new Node<T>(obj, first);  
    size++;  
}
```



Erstes Element hinzufügen

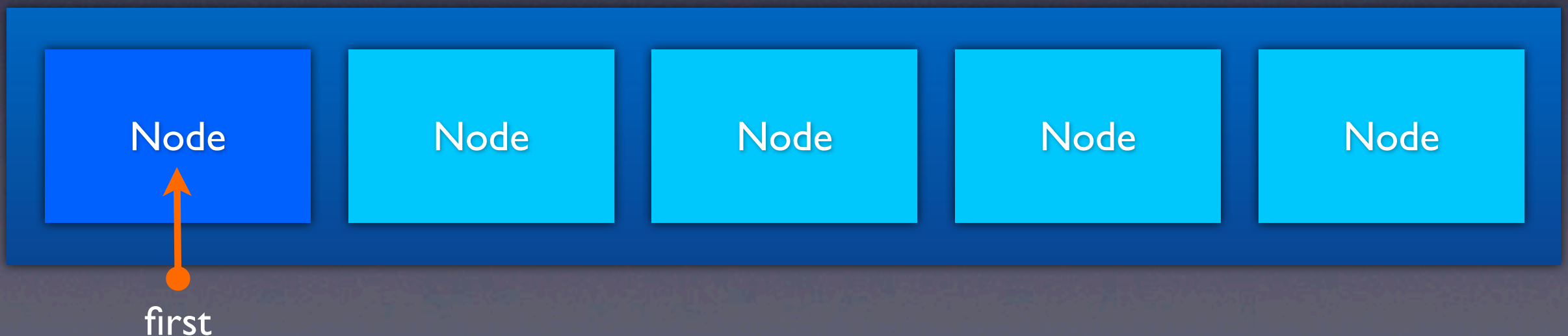


```
public void addFirst(T obj) {  
    first = new Node<T>(obj, first);  
    size++;  
}
```



Erstes Element hinzufügen

```
public void addFirst(T obj) {  
    first = new Node<T>(obj, first);  
    size++;  
}
```



Index eines Objects finden

```
public int indexOf(T obj) {  
    Node<T> p = first;  
    int i = 0;  
    while(p != null && !p.value.equals(obj)) {  
        p = p.next;  
        i++;  
    }  
    return p != null ? i : -1;  
}
```

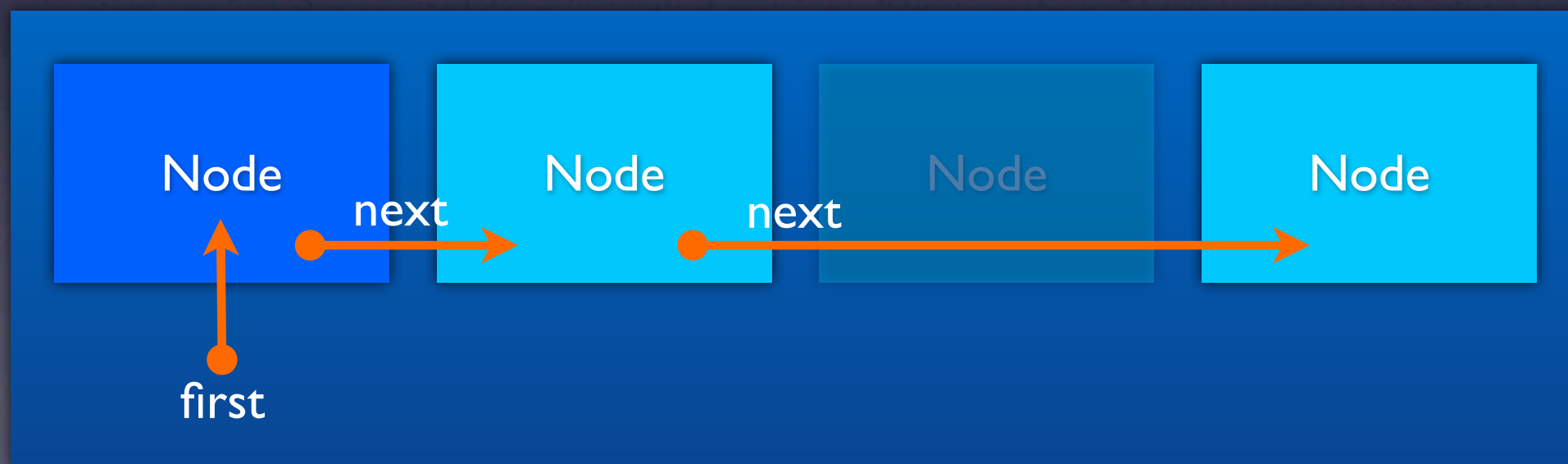
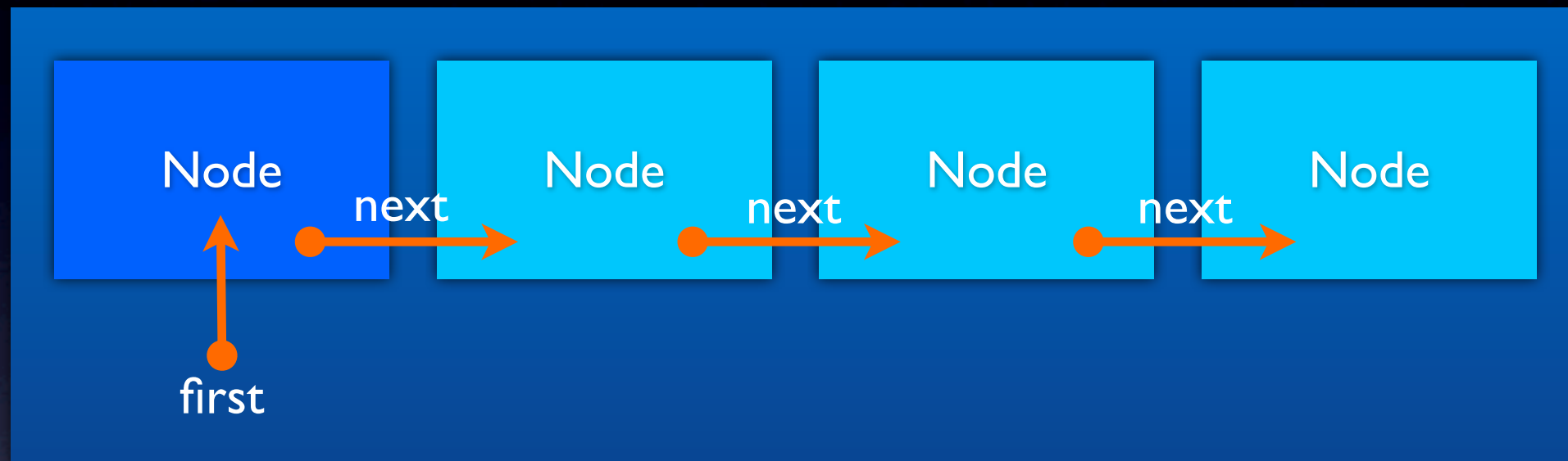
Node

Node

Node

Node

Objekt löschen



Aufgabenstellung

Es sollen folgende Methoden ergänzt werden:

- `public boolean contains(T obj)`
- `public void addLast(T obj)`
- `public boolean remove(T obj)`