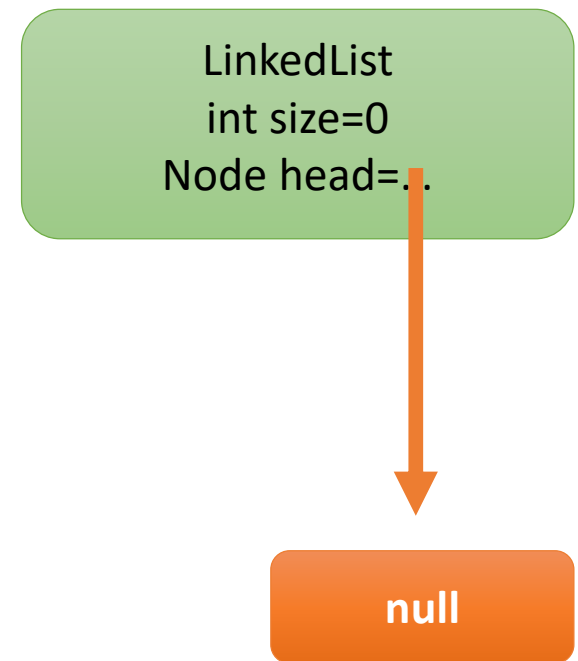


# Algoritmer og datastrukturer

Økt 6B – Operasjoner på lenkede lister

# Empty Linked list

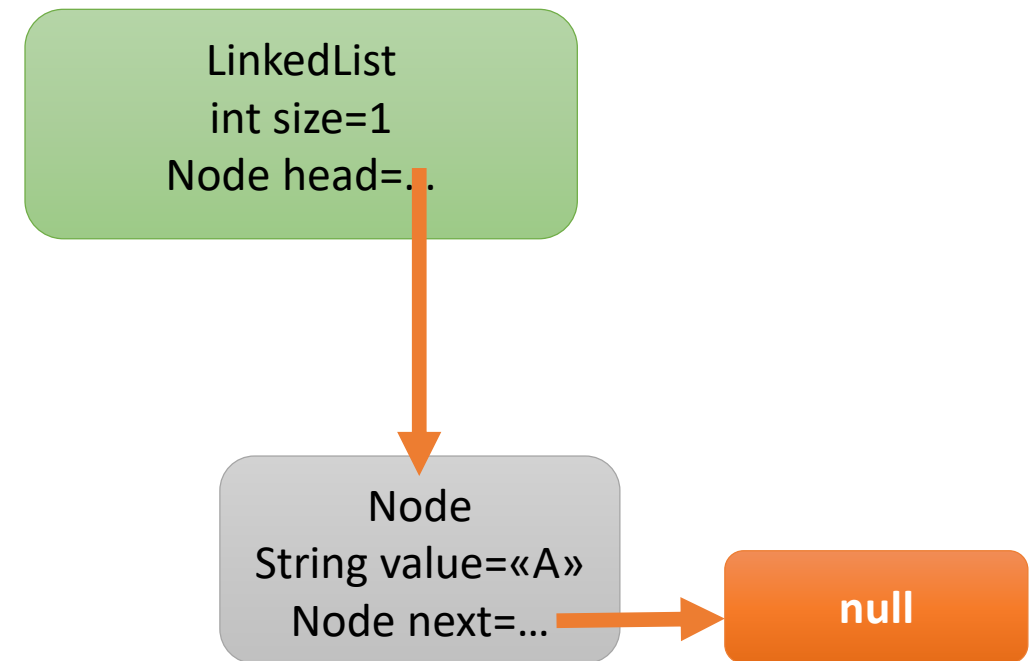
```
//Lager en bedre lenket liste  
LinkedList my_linked_list = new LinkedList();
```



# Add elements

```
public void add(String value) {  
    Node new_node = new Node(value, head);  
    head = new_node;  
}
```

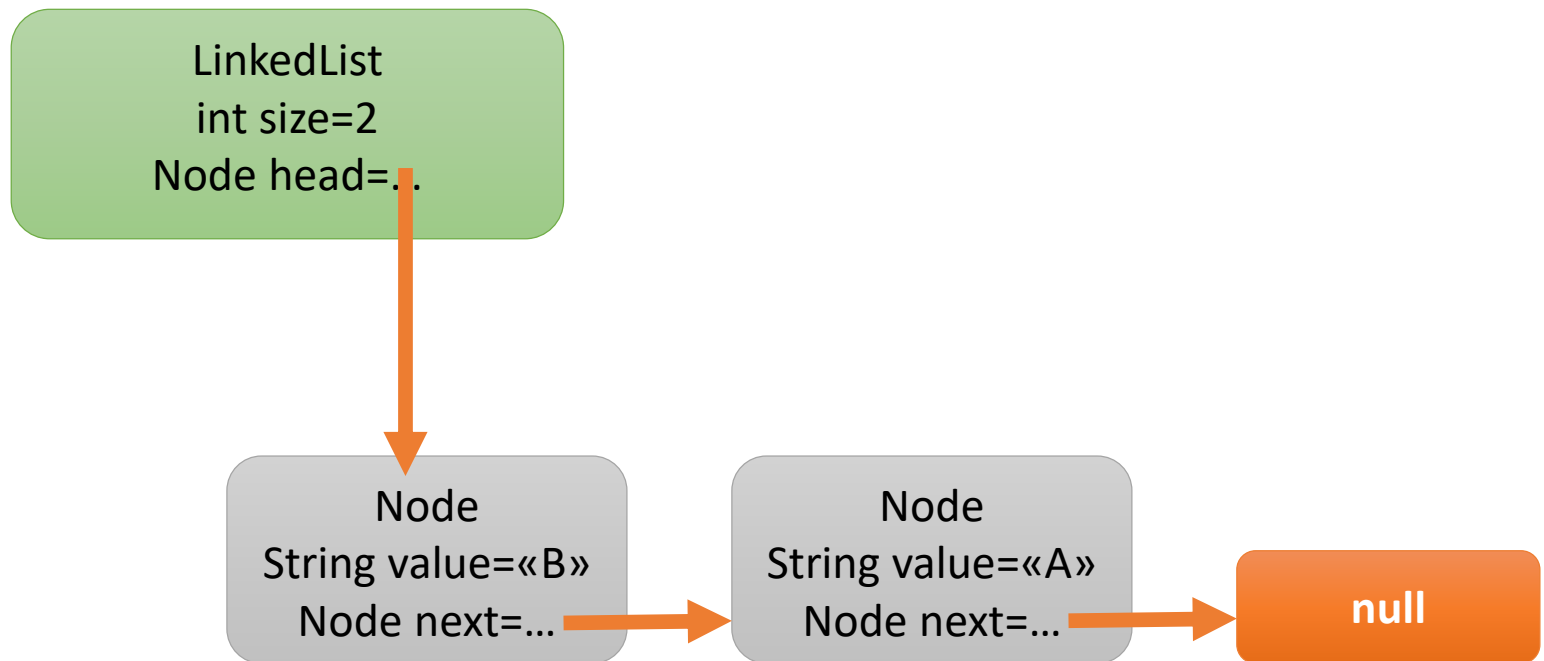
```
//Lager en bedre lenket liste  
LinkedList my_linked_list = new LinkedList();  
my_linked_list.add("A");
```



# Add elements

```
public void add(String value) {  
    Node new_node = new Node(value, head);  
    head = new_node;  
}
```

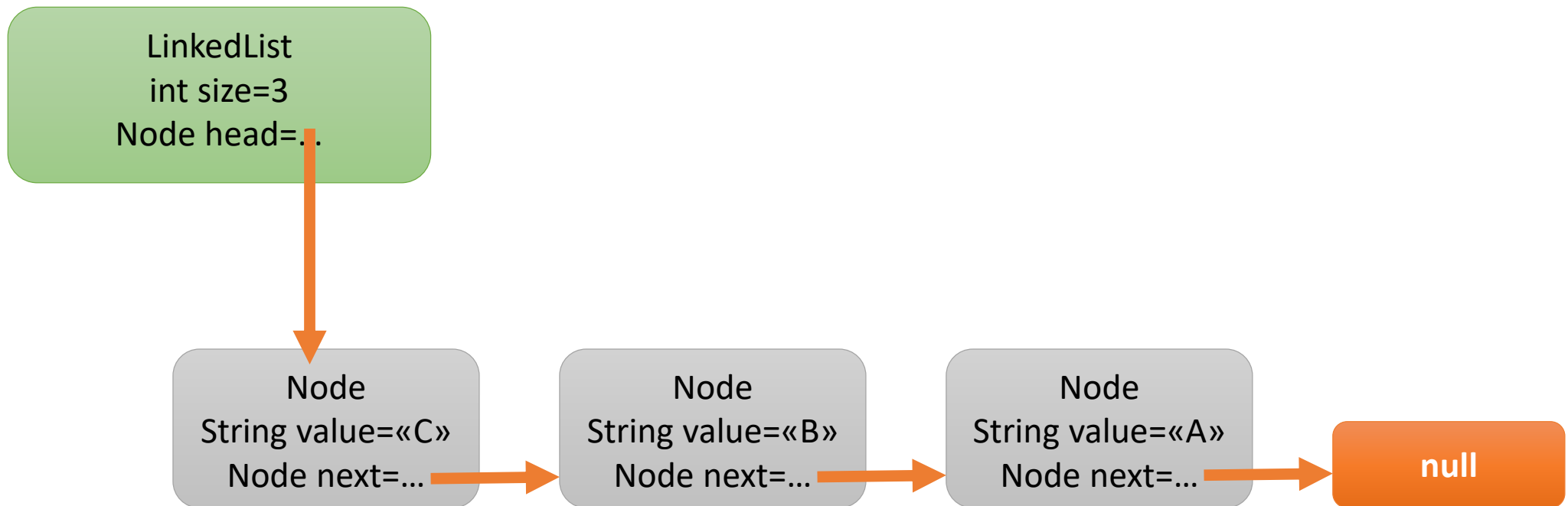
```
//Lager en bedre lenket liste  
LinkedList my_linked_list = new LinkedList();  
my_linked_list.add("A");  
my_linked_list.add("B");
```



# Add elements

```
public void add(String value) {  
    Node new_node = new Node(value, head);  
    head = new_node;  
}
```

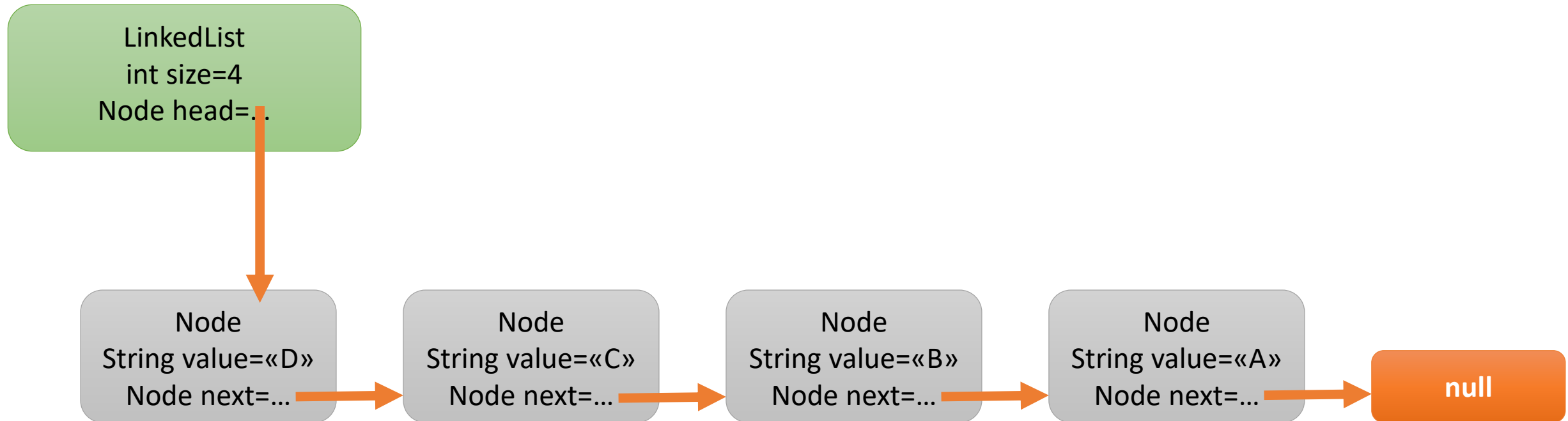
```
//Lager en bedre lenket liste  
LinkedList my_linked_list = new LinkedList();  
my_linked_list.add("A");  
my_linked_list.add("B");  
my_linked_list.add("C");
```



# Add elements

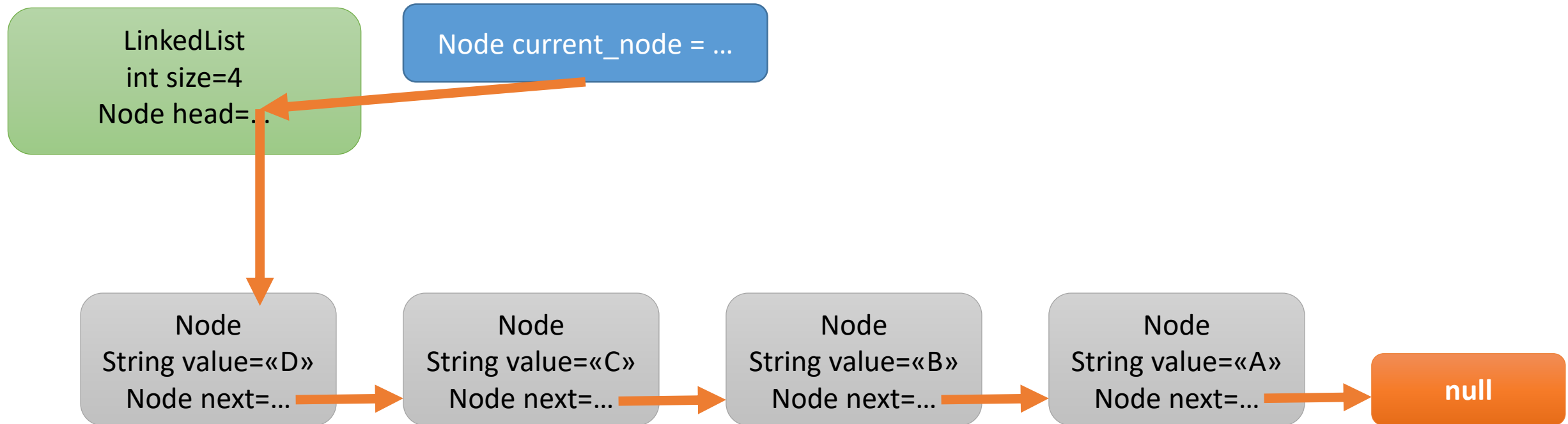
```
public void add(String value) {  
    Node new_node = new Node(value, head);  
    head = new_node;  
}
```

```
//Lager en bedre lenket liste  
LinkedList my_linked_list = new LinkedList();  
my_linked_list.add("A");  
my_linked_list.add("B");  
my_linked_list.add("C");  
my_linked_list.add("D");
```



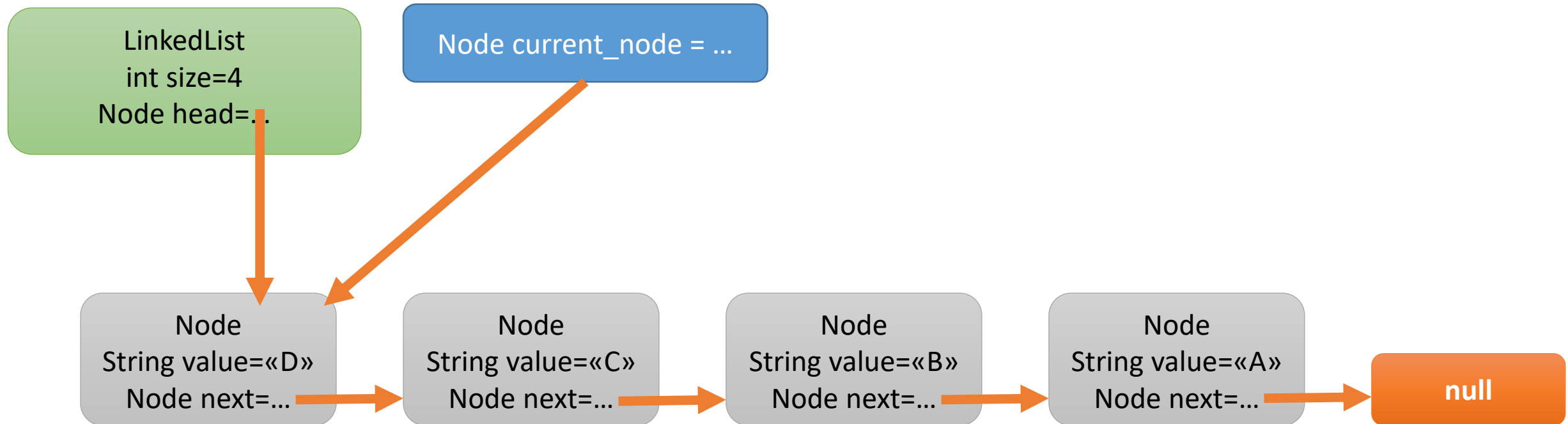
# Insert elements

```
my_linked_list.insert( value: "E", index: 2);  
  
public void insert(String value, int index) {  
    Node current_node = head;  
    for (int i=0; i<index - 1; ++i) {  
        current_node = current_node.getNext();  
    }  
}
```



# Insert elements

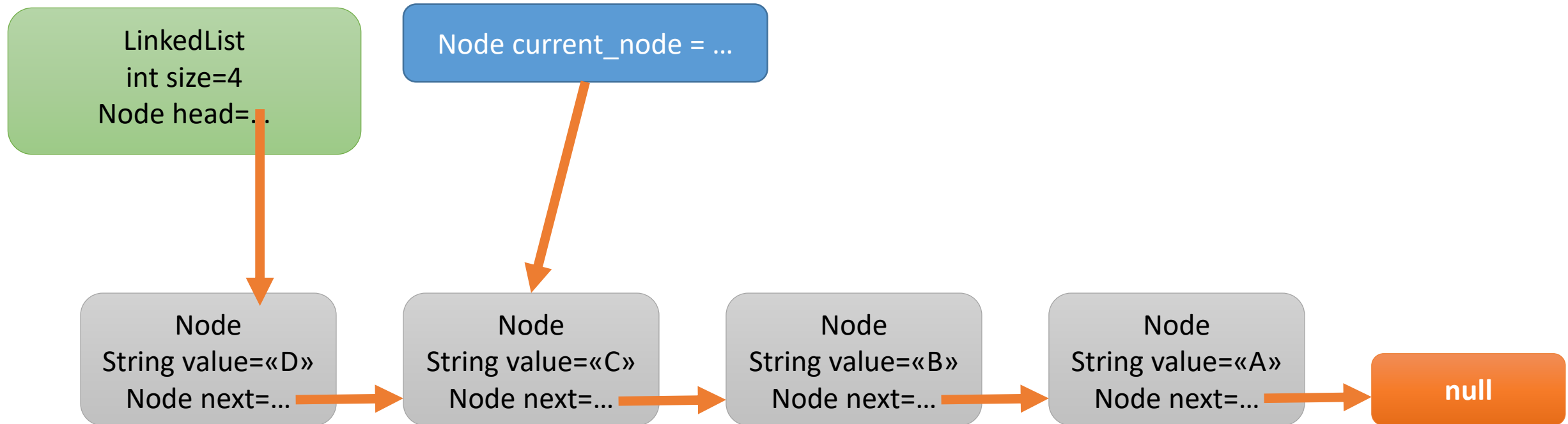
```
my_linked_list.insert( value: "E", index: 2);  
  
public void insert(String value, int index) {  
    Node current_node = head;  
    for (int i=0; i<index - 1; ++i) {  
        current_node = current_node.getNext();  
    }  
}
```





# Insert elements

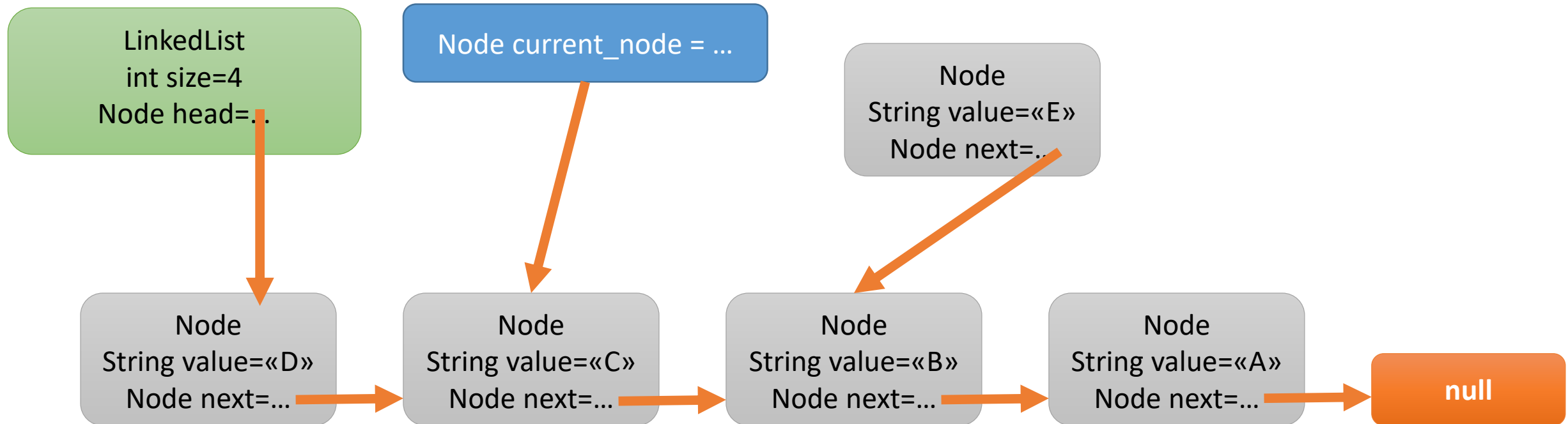
```
my_linked_list.insert( value: "E", index: 2);  
  
public void insert(String value, int index) {  
    Node current_node = head;  
    for (int i=0; i<index - 1; ++i) {  
        current_node = current_node.getNext();  
    }  
}
```



# Insert elements

```
my_linked_list.insert( value: "E", index: 2);
```

```
public void insert(String value, int index) {  
    Node current_node = head;  
    for (int i=0; i<index - 1; ++i) {  
        current_node = current_node.getNext();  
    }  
    Node new_node = new Node(value, current_node.getNext());  
}
```



# Insert elements

```
my_linked_list.insert( value: "E", index: 2);
```

```
public void insert(String value, int index) {  
    Node current_node = head;  
    for (int i=0; i<index - 1; ++i) {  
        current_node = current_node.getNext();  
    }  
    Node new_node = new Node(value, current_node.getNext());  
    current_node.next_node = new_node;  
}
```

