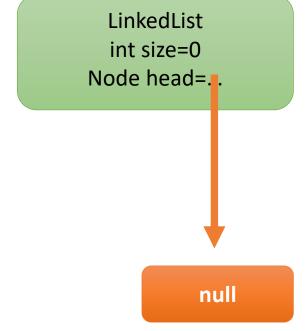
Algoritmer og datastrukturer

Økt 6B – Operasjoner på lenkede lister

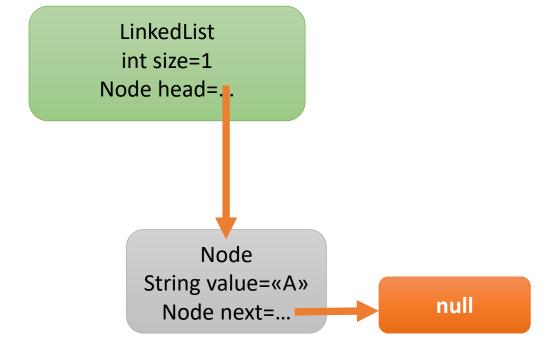
Empty Linked list

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



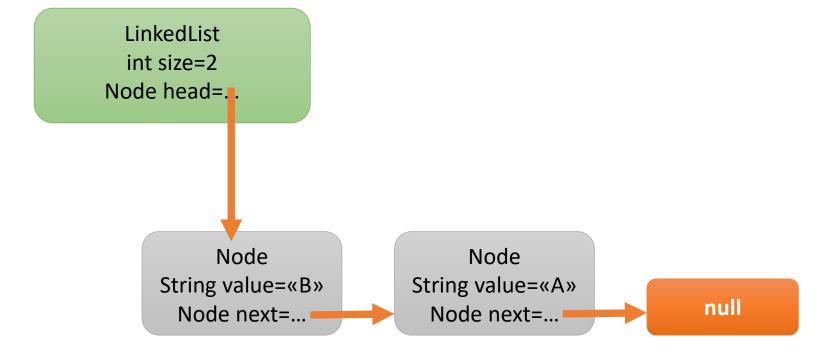
```
public void add(String value) {
    Node new_node = new Node(value, head);
    head = new_node;
}
```

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



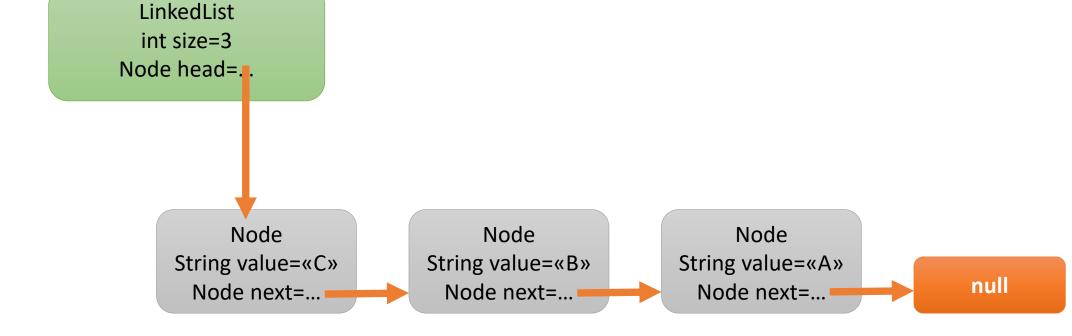
```
public void add(String value) {
    Node new_node = new Node(value, head);
    head = new_node;
}
```

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



```
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");
```

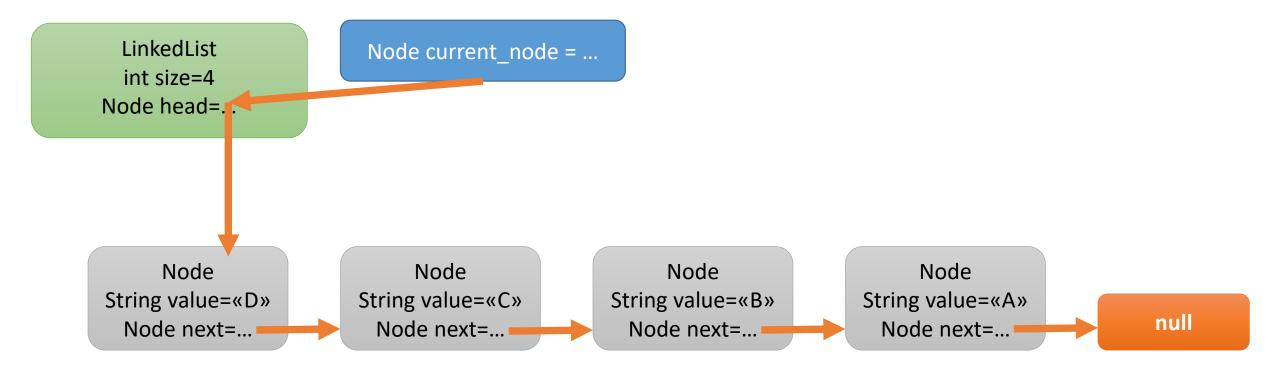


```
LinkedList my linked list = new LinkedList();
                                                    my linked list.add("A");
 public void add(String value) {
                                                    my linked list.add("B");
      Node new node = new Node (value, head);
                                                    my linked list.add("C");
      head = new node;
                                                    my linked list.add("D");
 LinkedList
 int size=4
Node head=...
     Node
                            Node
                                                   Node
                                                                          Node
String value=«D»
                       String value=«C»
                                              String value=«B»
                                                                    String value=«A»
                                                                                               null
                                                                      Node next=...
 Node next=...
                        Node next=...
                                               Node next=...
```

//Lager en bedre lenket liste

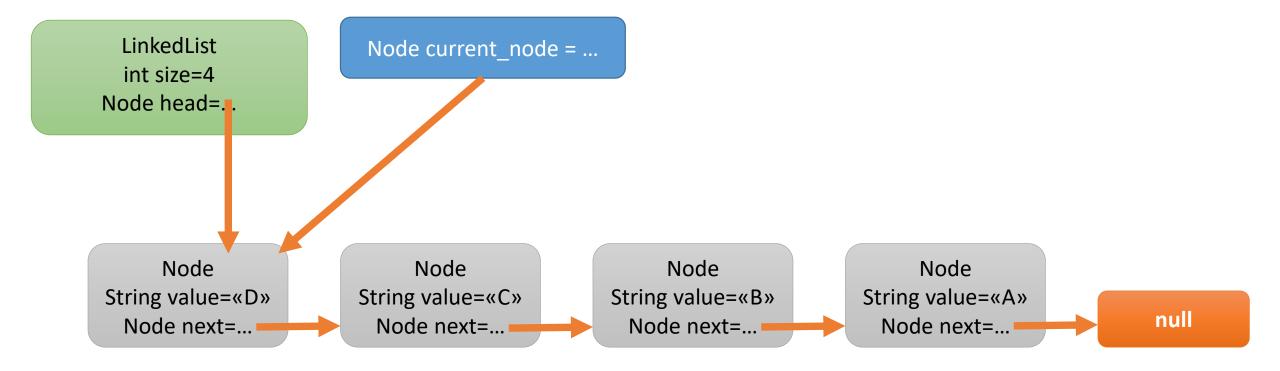
```
my_linked_list.insert(value: "E", index: 2);

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



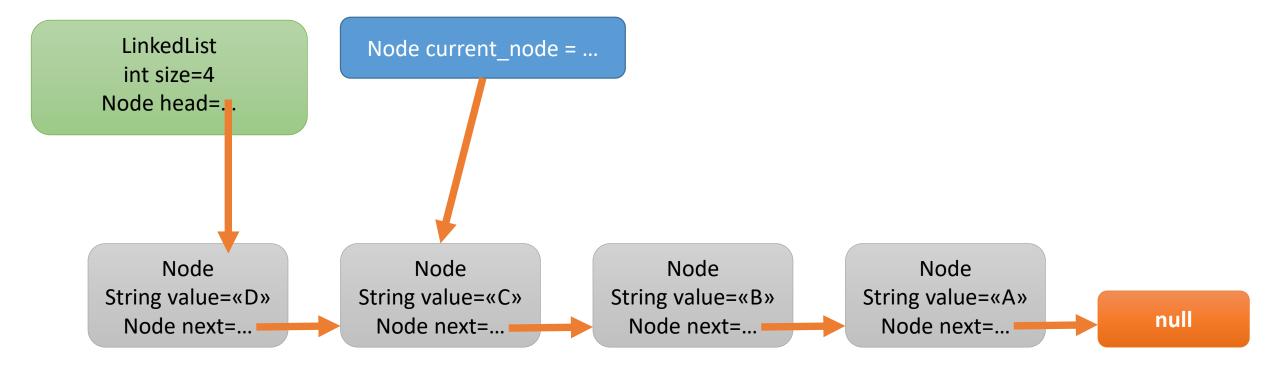
```
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public void insert(String value, int index) {
   Node current_node = head;
   for (int i=0; i<index - 1; ++i) {
      current_node = current_node.getNext();
   }
}</pre>
```



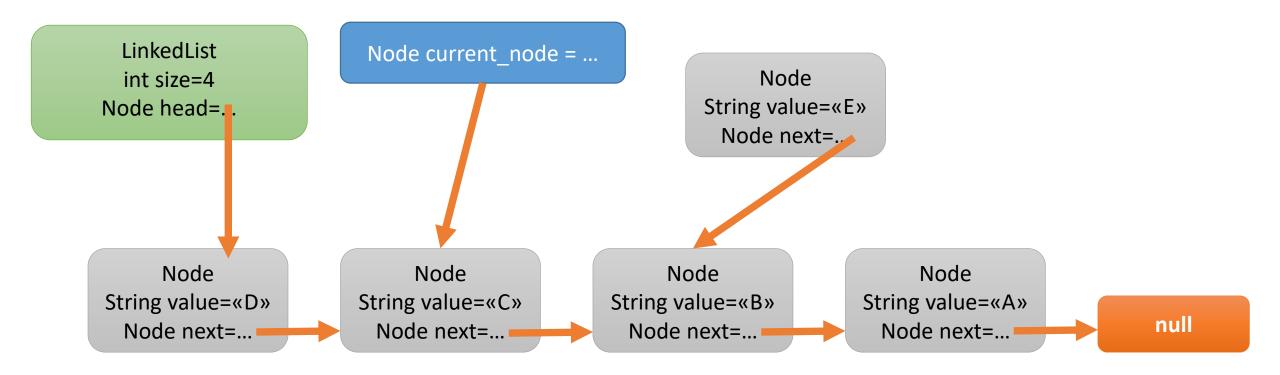
```
my_linked_list.insert(value: "E", index: 2);

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



```
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());</pre>
```



```
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;</pre>
```

