

Doubly Linked List Implementation

In this lecture we will implement a Doubly Linked List

```
In [1]: class DoublyLinkedListNode(object):  
  
    def __init__(self,value):  
  
        self.value = value  
        self.next_node = None  
        self.prev_node = None
```

Now that we have our node that can reference next *and* previous values, let's begin to build out our linked list!

```
In [2]: a = DoublyLinkedListNode(1)  
        b = DoublyLinkedListNode(2)  
        c = DoublyLinkedListNode(3)
```

```
In [3]: # Setting b after a  
        b.prev_node = a  
        a.next_node = b
```

```
In [4]: # Setting c after a  
        b.next_node = c  
        c.prev_node = b
```

Having a Doubly Linked list allows us to go through our Linked List forwards **and** backwards.

Good Job!