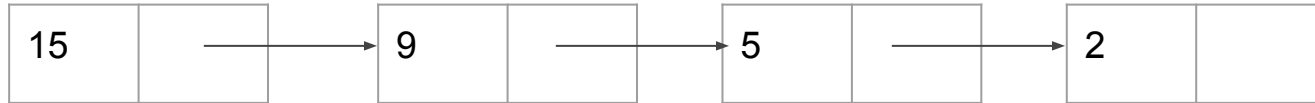


# Linked List

# What is a linked list?

Value	Address
-------	---------

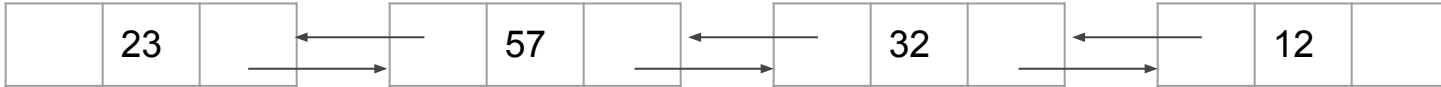


Singly Linked List

# Doubly Linked List

Java uses doubly linked list.

Prev	Value	Next
------	-------	------



# Linked List Features

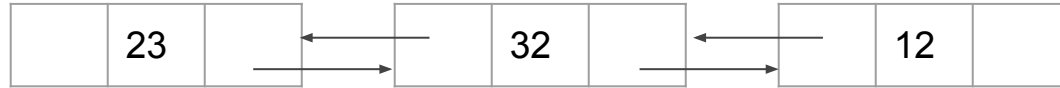
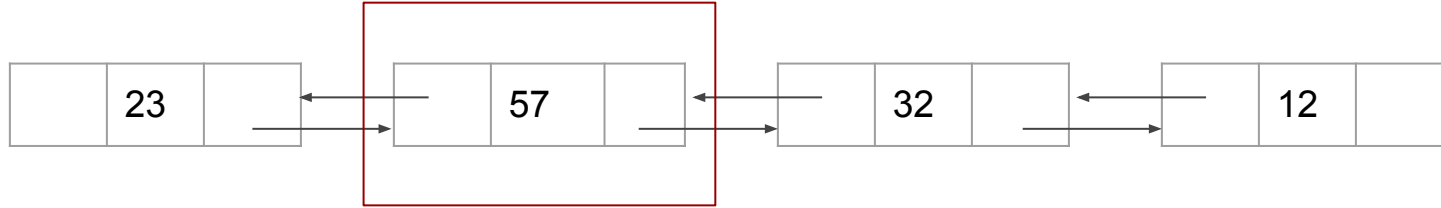
Can contain duplicate elements.

Maintains insertion order.

Fast manipulation.



# Manipulation in Linked List



# Creating A Linked List

```
LinkedList a = new LinkedList();
```

```
LinkedList<String> b = new LinkedList<String>();
```



# ArrayList v/s LinkedList

ArrayList	LinkedList
Uses array to store elements	Uses doubly linked list to store elements
Can act as a list	Can act as a list and queue both
Slow manipulation because of shifting	Faster manipulation as no shifting required
Suitable for storing and accessing elements	Suitable for manipulating elements

