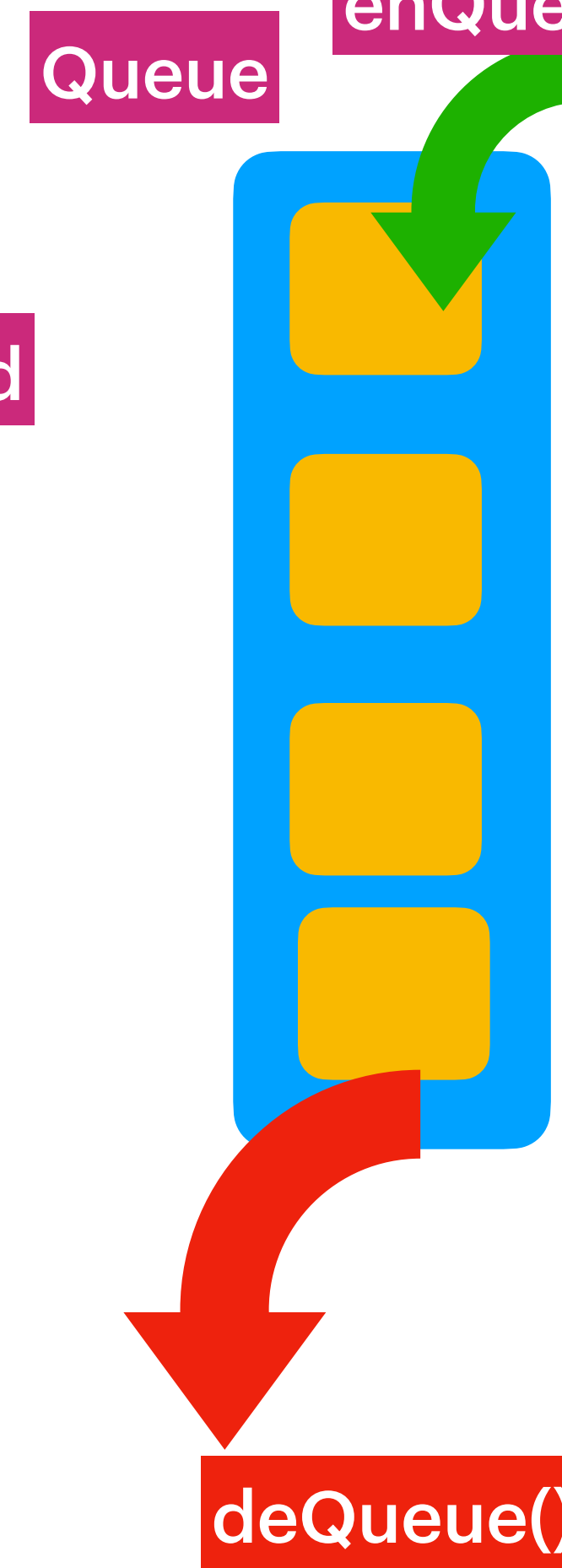
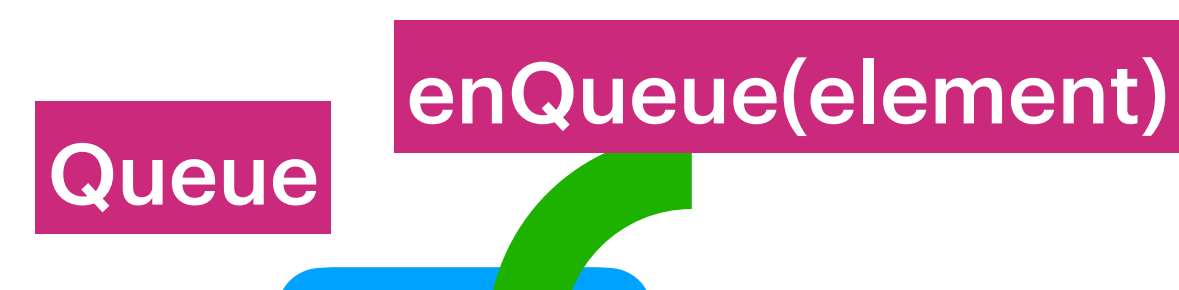
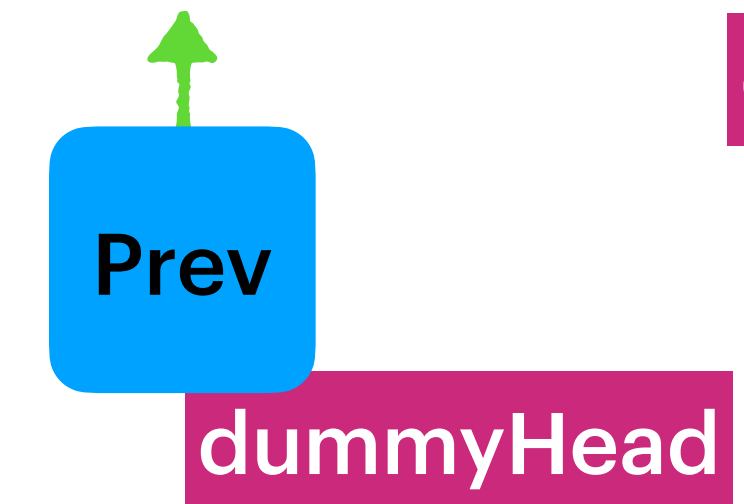


Design Queue

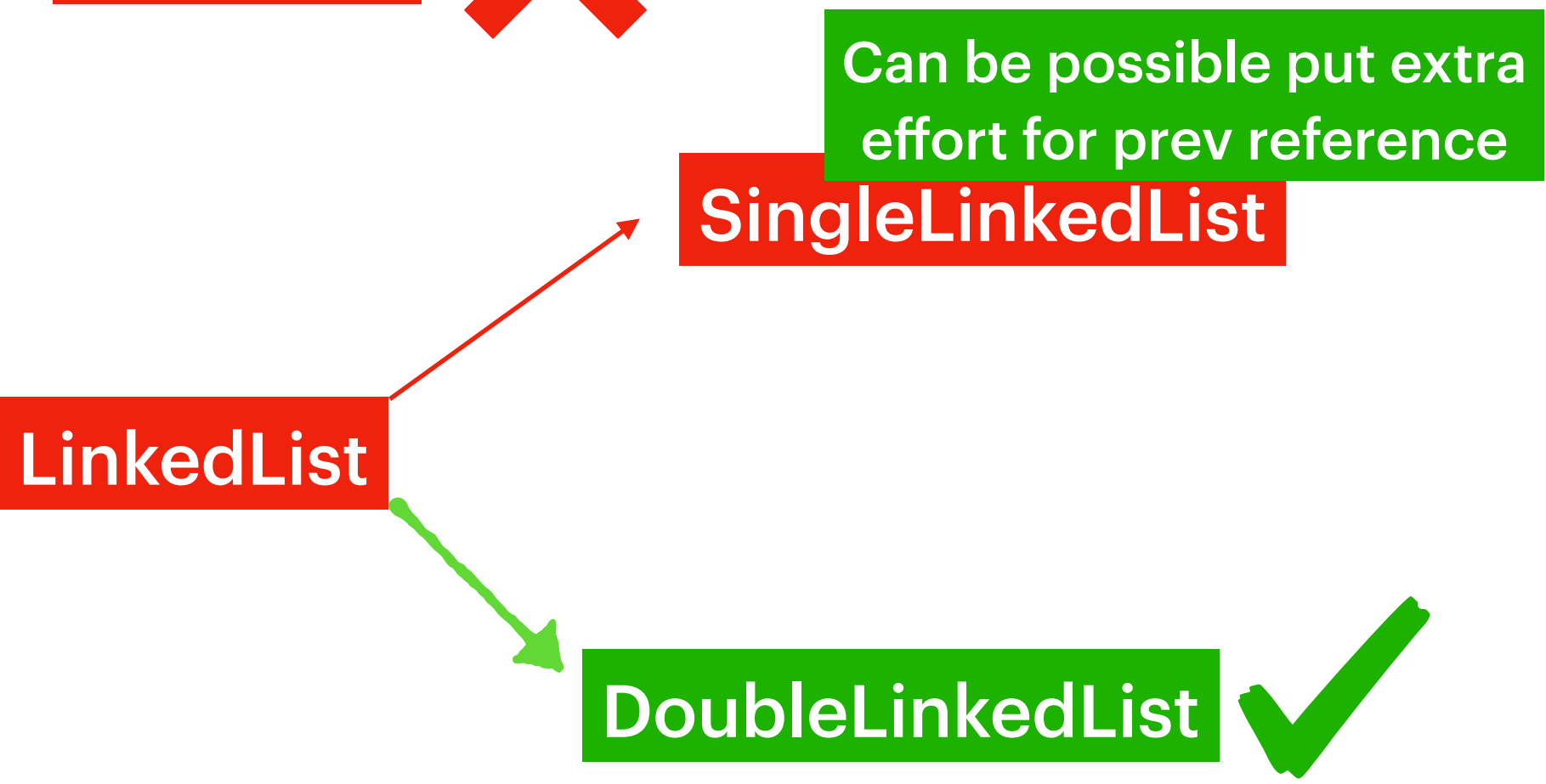
First In First Out

Removes from front : dummyHead.prev

Adds to Rear : dummyTail.next

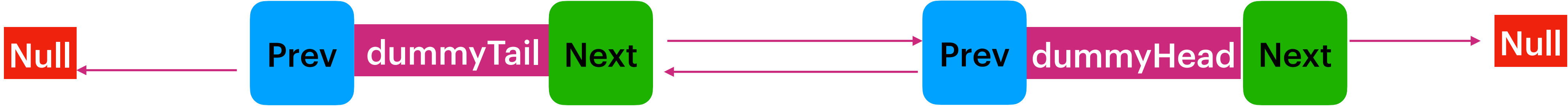


ArrayList : ❌

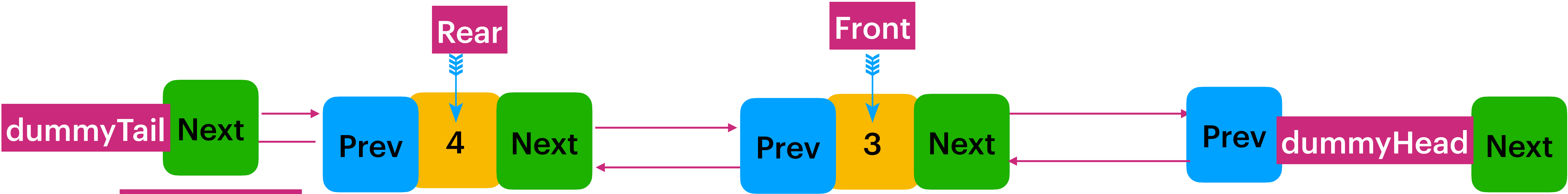


- Queue → enqueue(element)
- Queue → dequeue()
- Queue → getFirst()
- Queue → getLast()
- Queue → isEmpty()

Represents Empty Queue



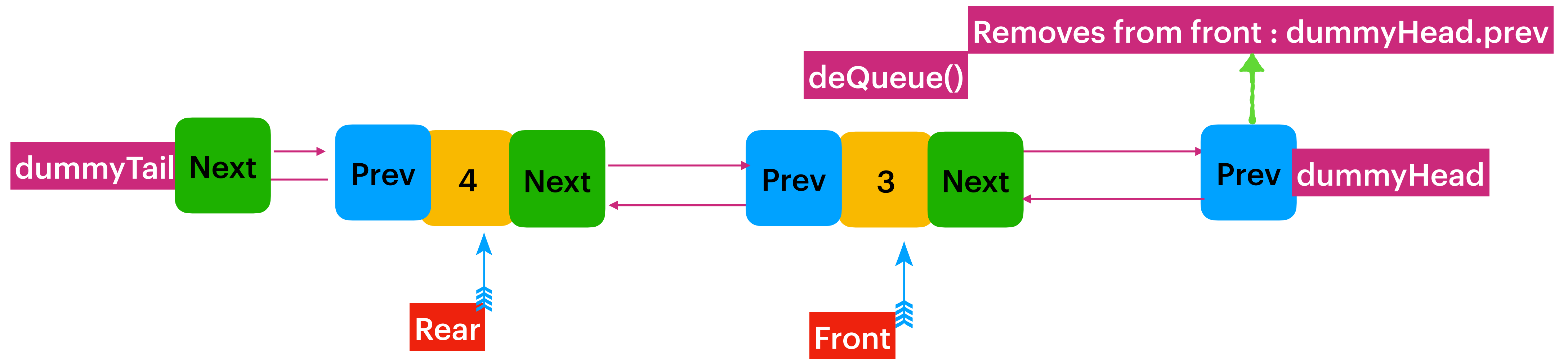
enqueue(3)



enqueue(4)

```
DLLNode tailNext = dummyTail.next;  
DLLNode current = new DLLNode(value);  
current.next = tailNext;  
tailNext.prev = current;  
dummyTail.next = current;  
current.prev = dummyTail;
```

enqueue(element) —>
Adds to dummyTail i.e dummyTail.next



deQueue() —> Removes from Front : i.e dummyHead.prev

```

DLLNode headPrev = dummyHead.prev;
dummyHead.prev = headPrev.prev
headPrev.prev.next = dummyHead

headPrev.next = null;
headPrev.prev = null; // Helps GC

```