Data Structure

Single Linked List

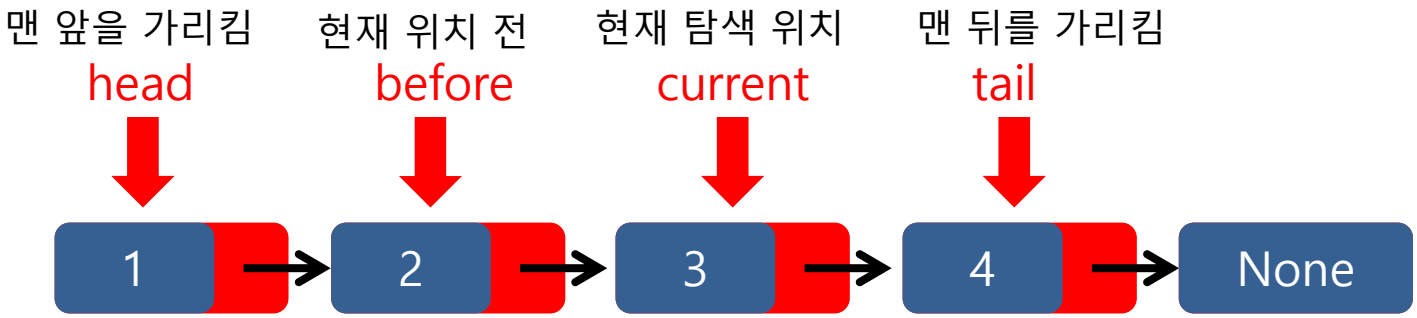
Single Linked List

노드

저장하고 싶은 데이터

다음 노드를 가리키는 참조

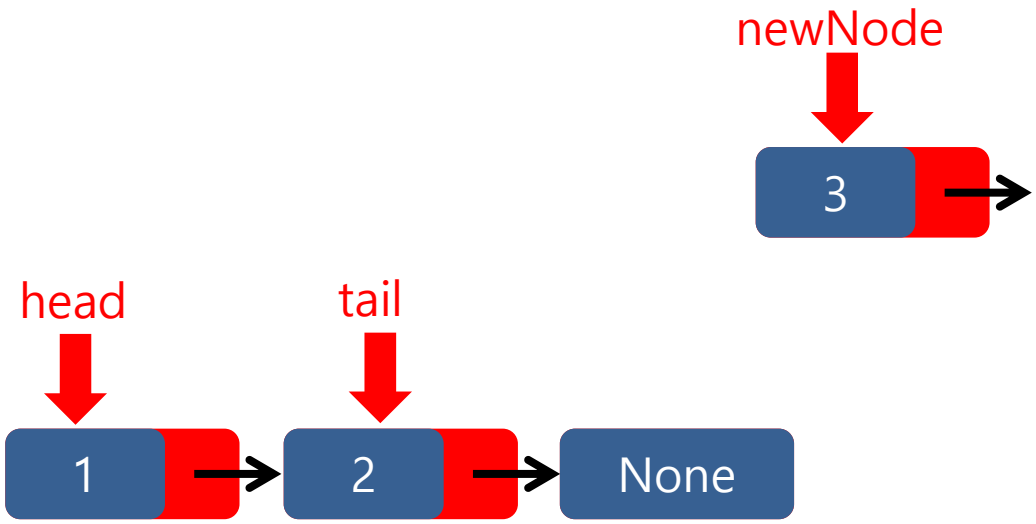
Single Linked List



1. 4개의 참조와
2. 데이터의 개수를 담고 있는 데이터 개수

Single Linked List

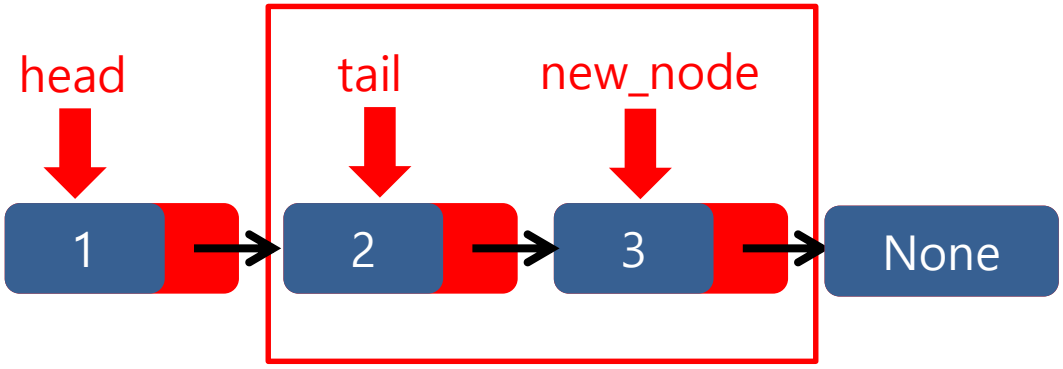
Insert - 1



Single Linked List

Insert - 2

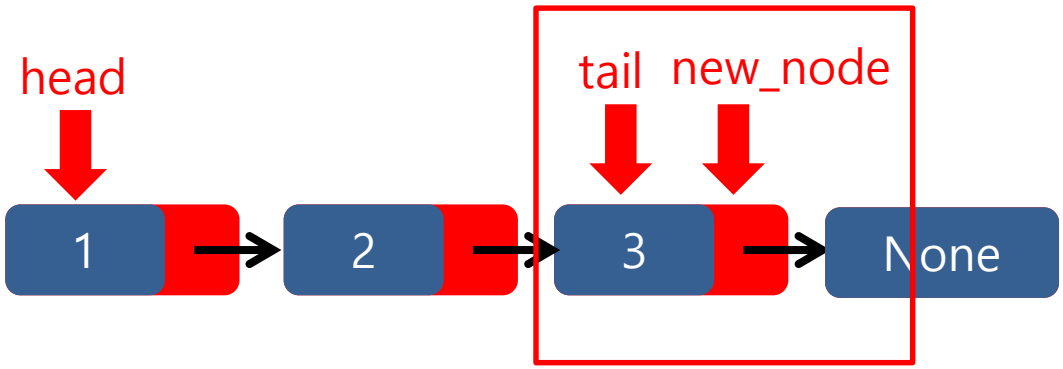
```
else:
    self.tail.next = new_node
    self.tail = new_node
    self.num_data += 1
```



Single Linked List

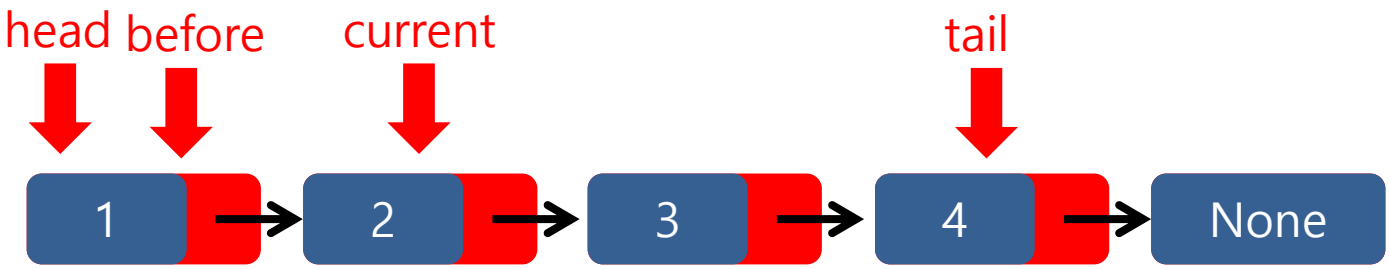
Insert - 3

```
else:
        self.tail.next = new_node
        self.tail = new_node
        self.num_data += 1
```



Single Linked List

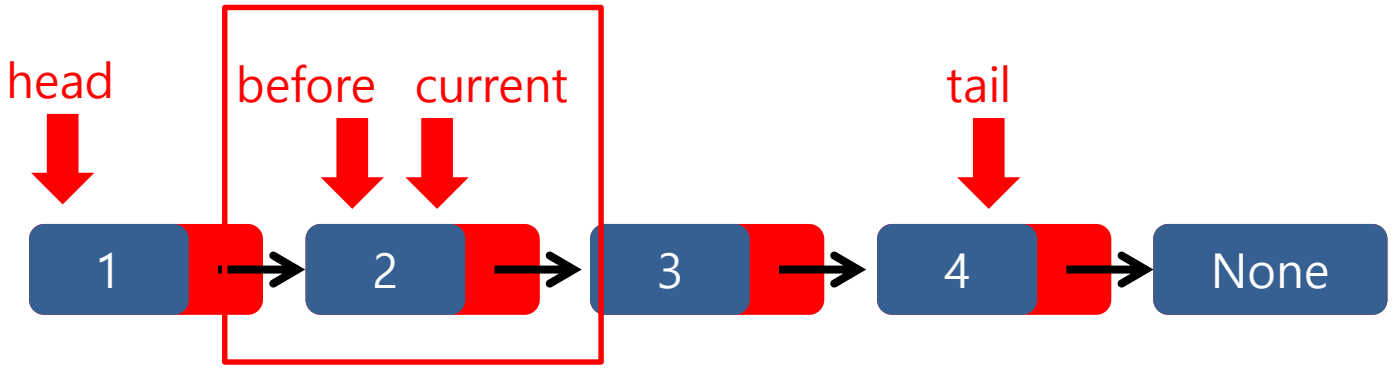
search - 1



Single Linked List

search - 2

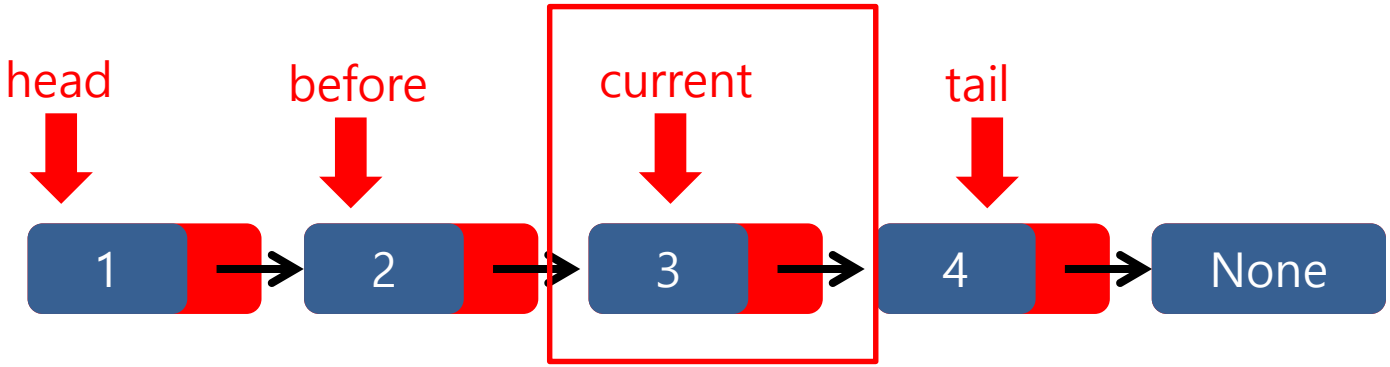
```
        self.before = self.current#6
        self.current = self.current.next

return self.current.data#7
```



Single Linked List

search - 3

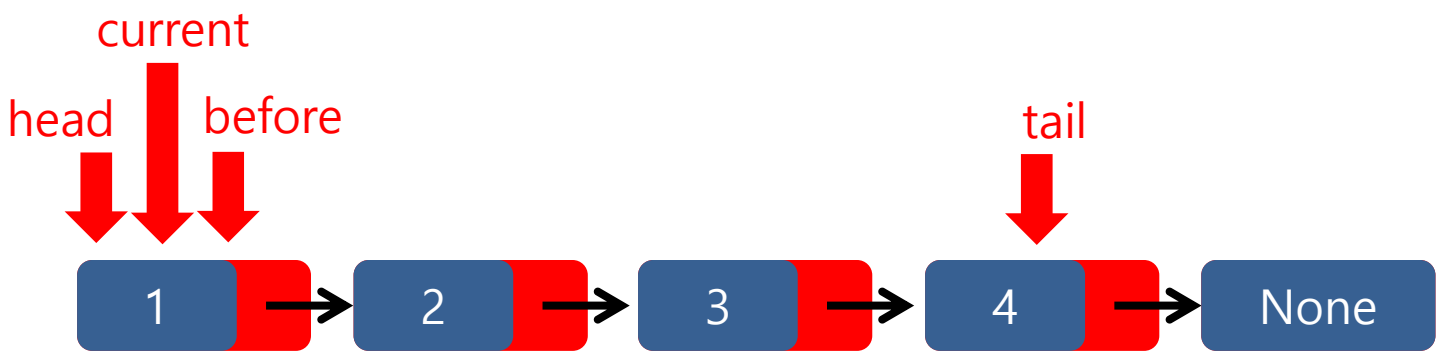
```
self.before = self.current#6
self.current = self.current.next

return self.current.data#7
```



Single Linked List

remove - 1

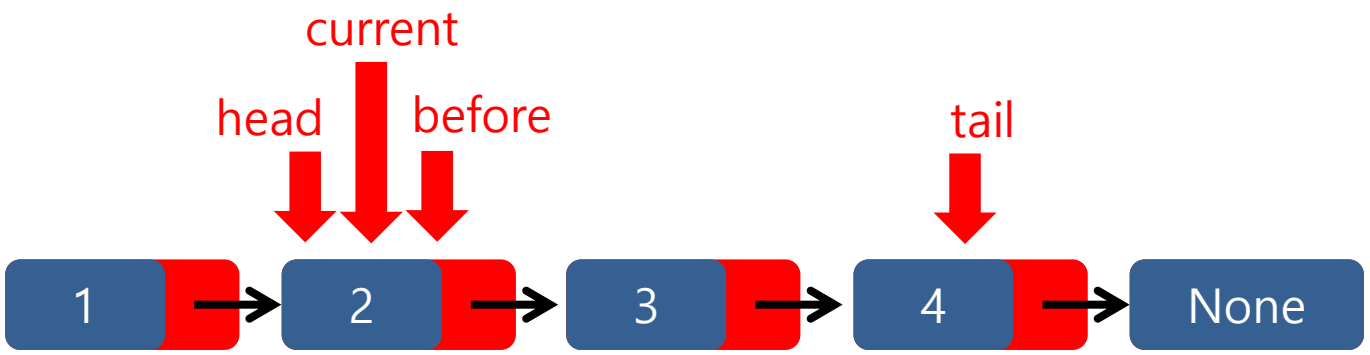
current == head



Single Linked List

remove - 1

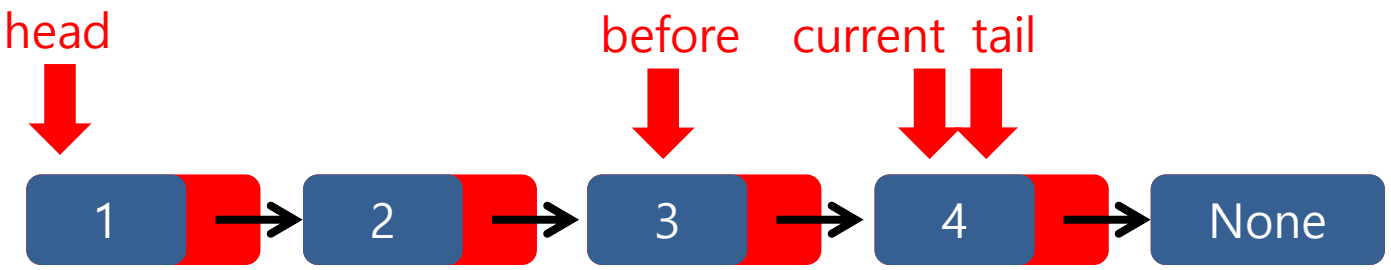
current == head



Single Linked List

remove - 2

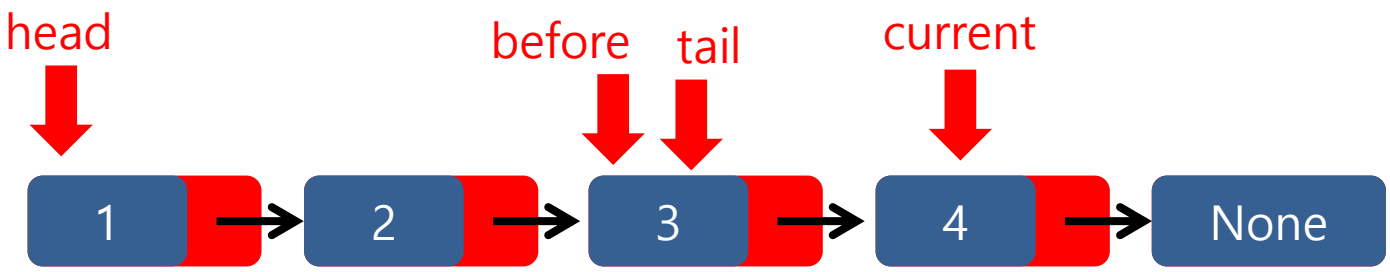
current == tail



Single Linked List

remove - 2

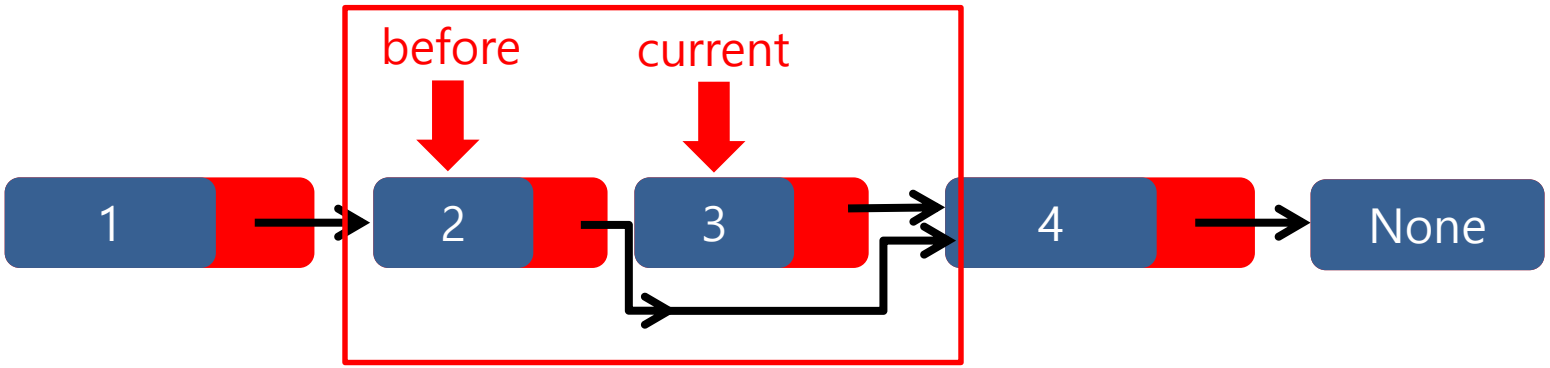
current == tail



Single Linked List

remove - 3

```
self.before.next = self.current.next#5
self.current = self.before
```



Single Linked List

remove - 3

```
self.before.next = self.current.next#5
self.current = self.before
```