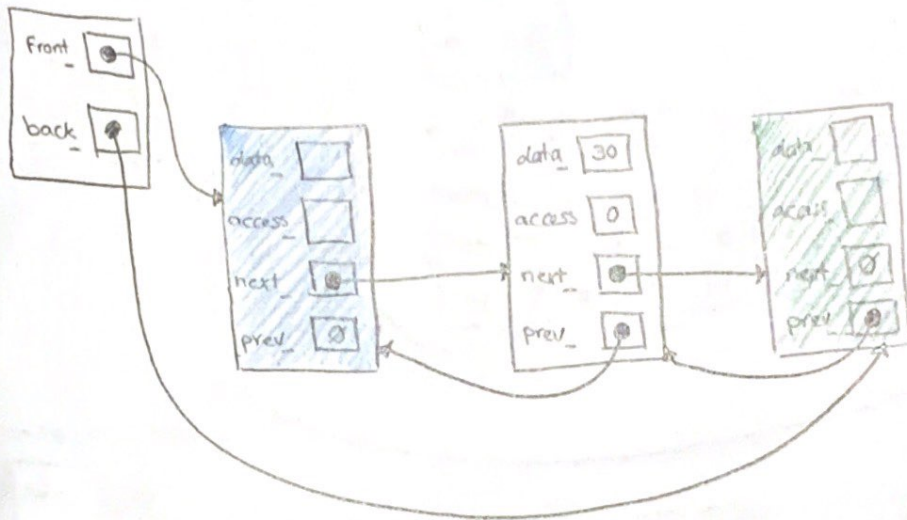
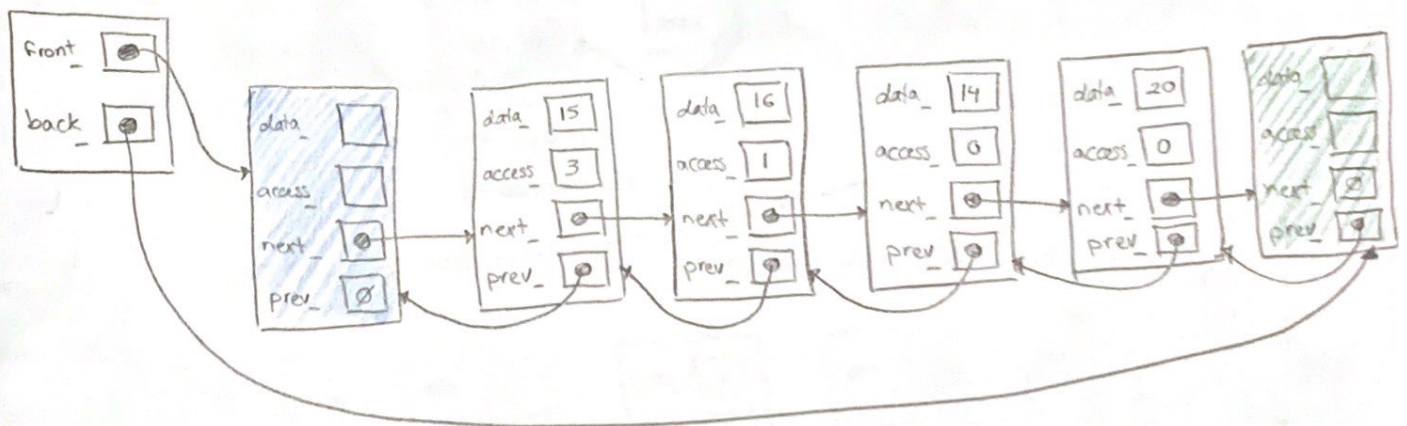


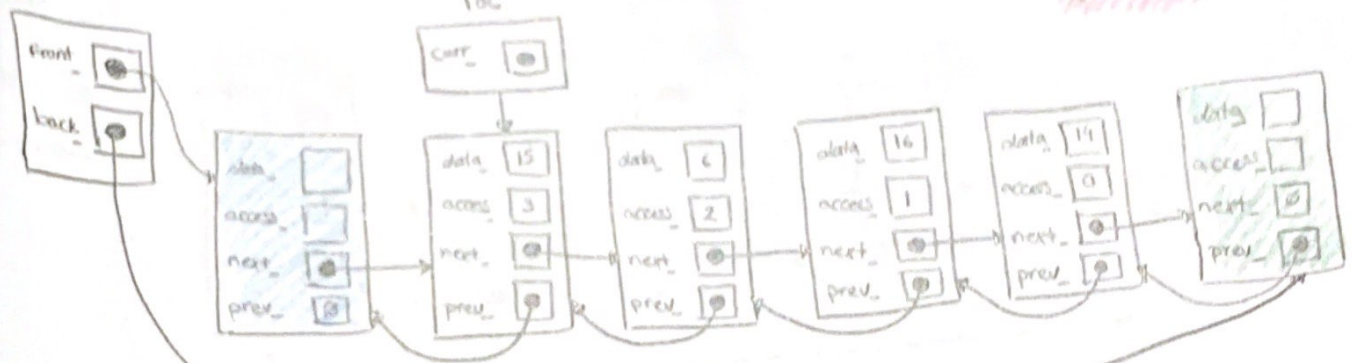
insert (30):



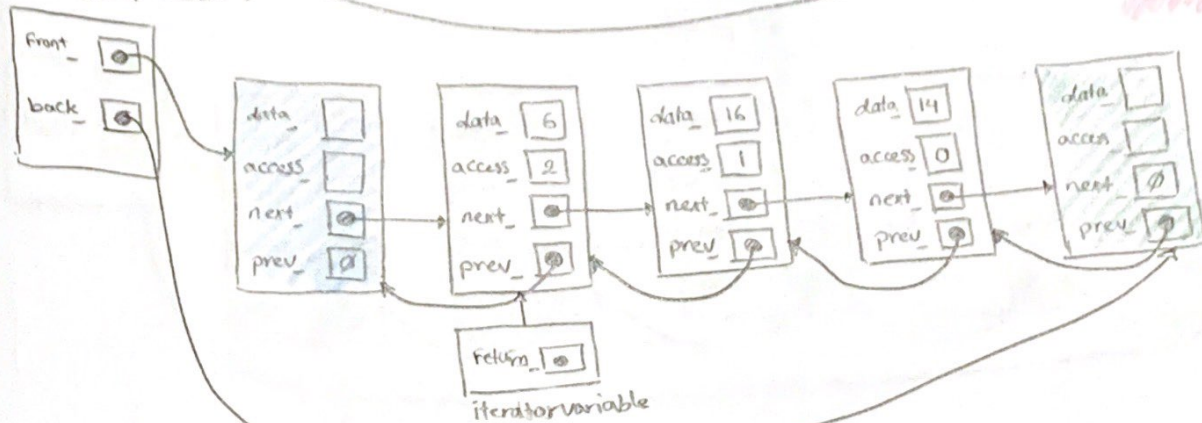
insert (20):



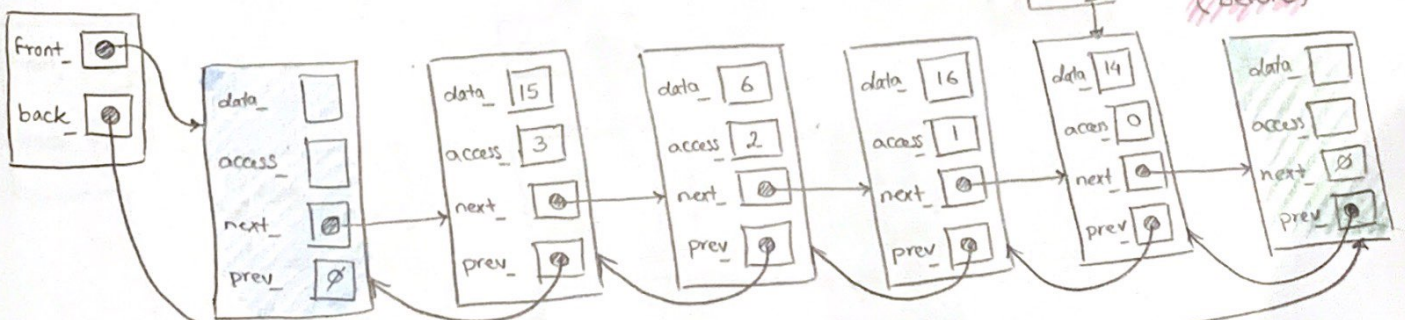
erase(loc)



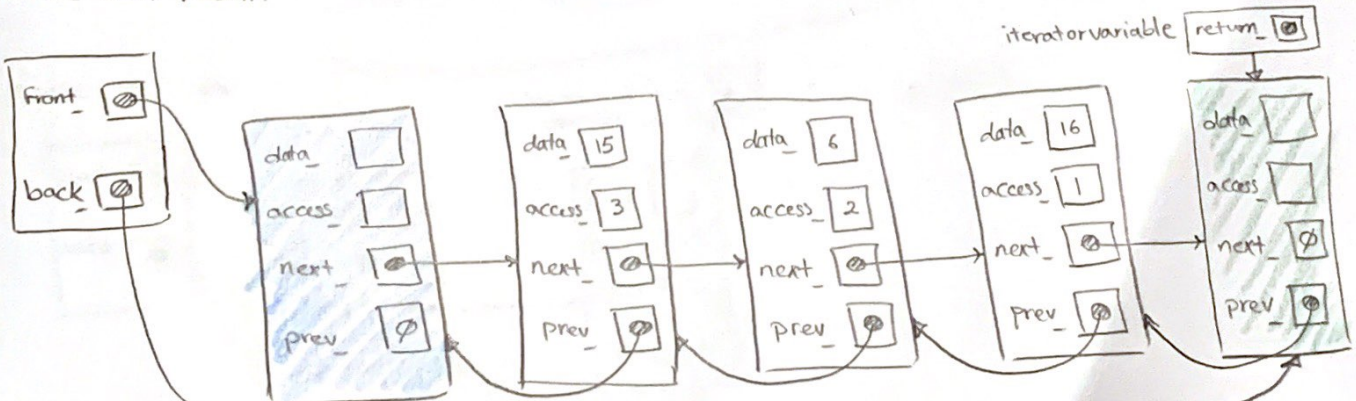
erase(loc) Result:



erase(loc) :



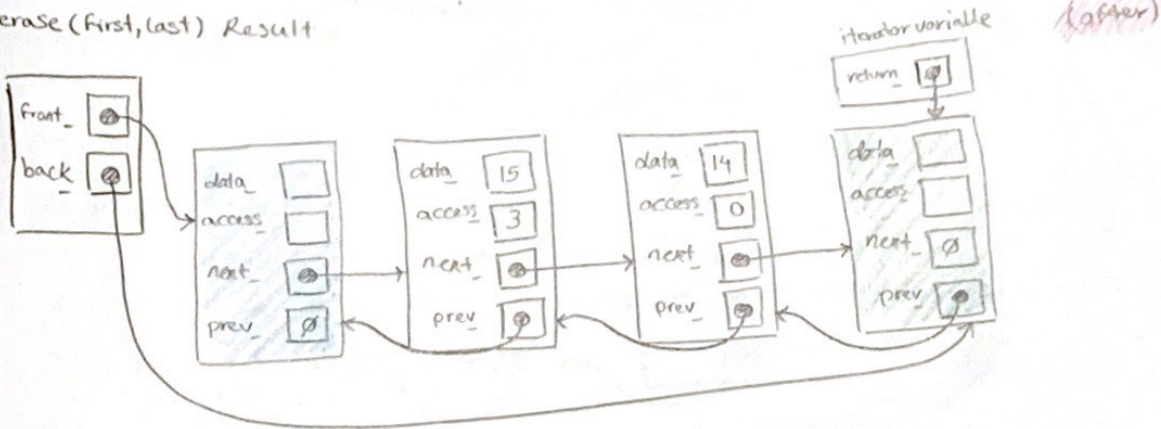
erase(loc) Result:



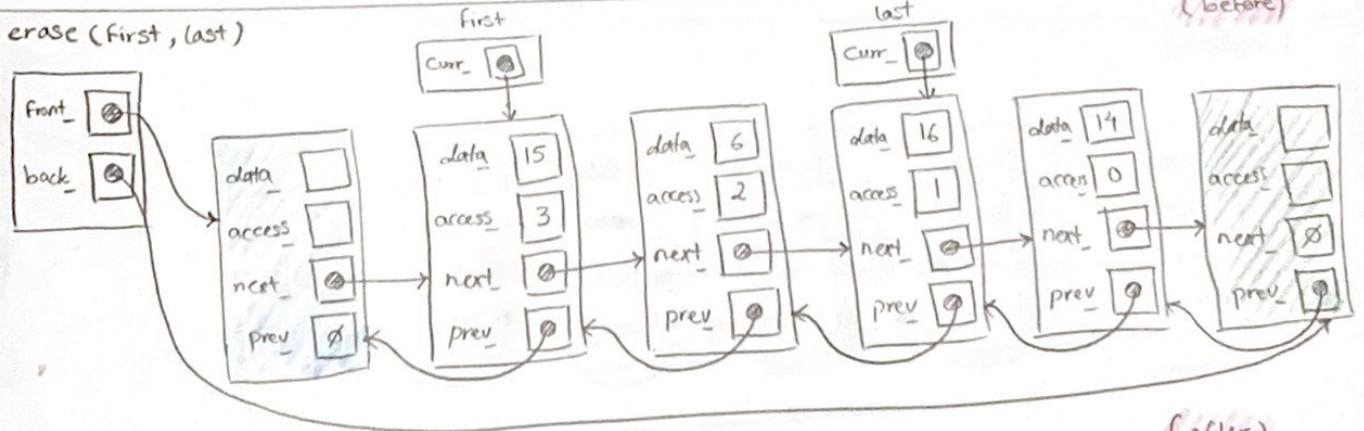
erase (first, last)



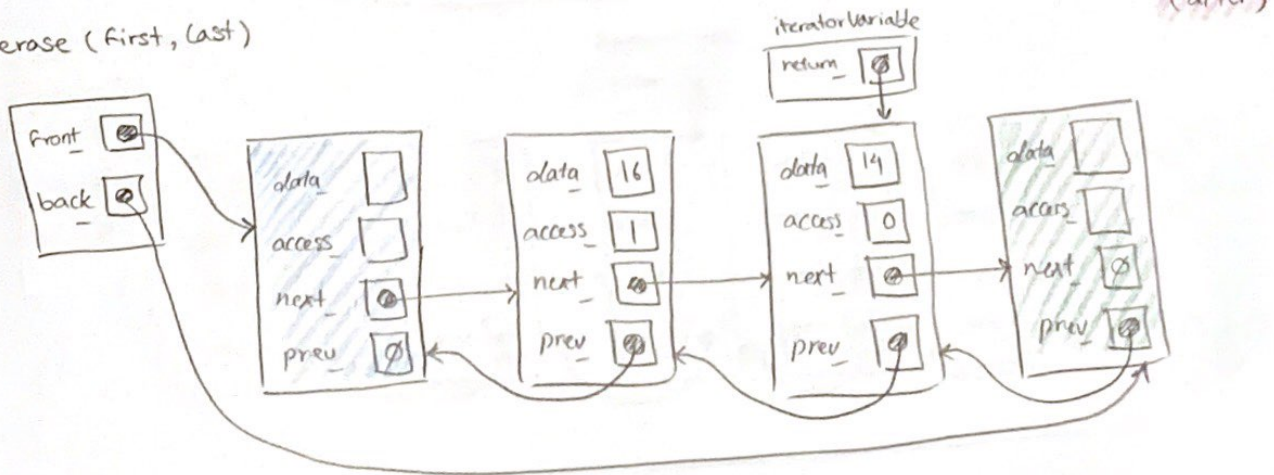
erase (first, last) Result



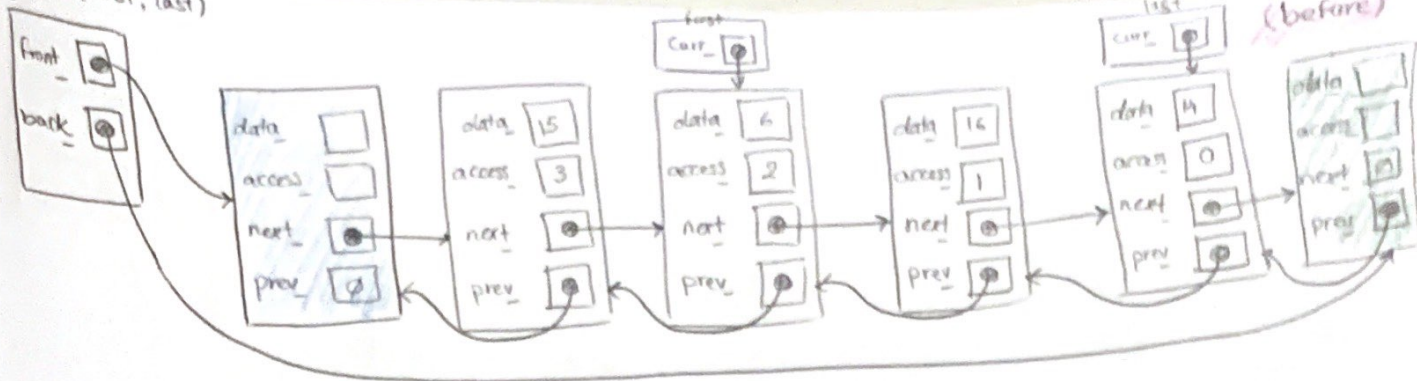
erase (first, last)



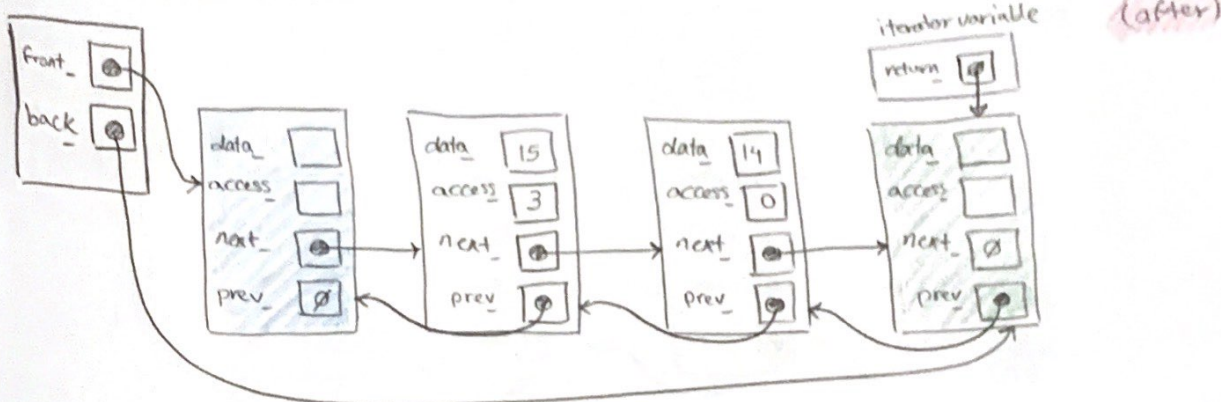
erase (first, last)



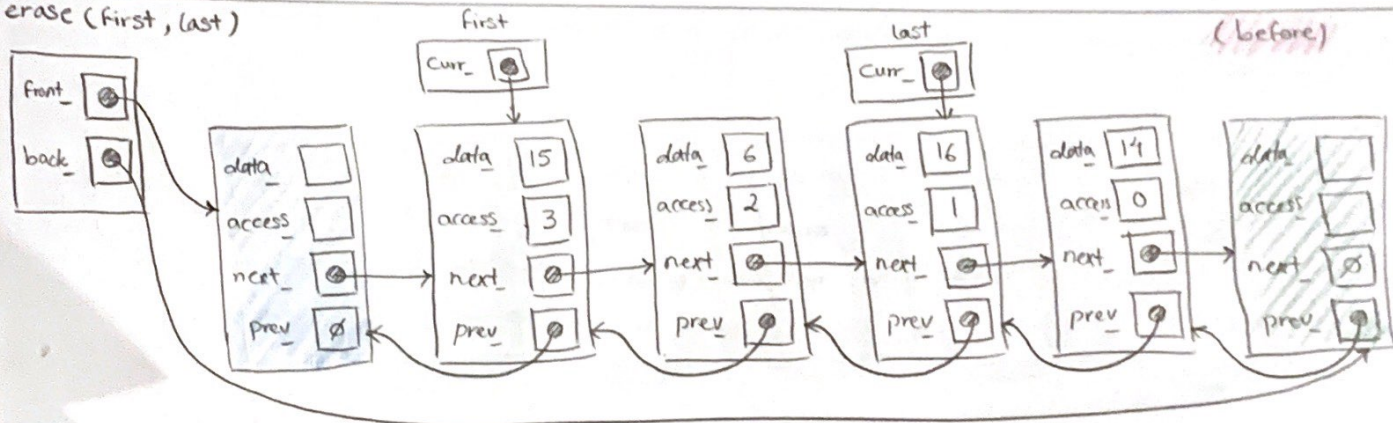
erase (first, last)



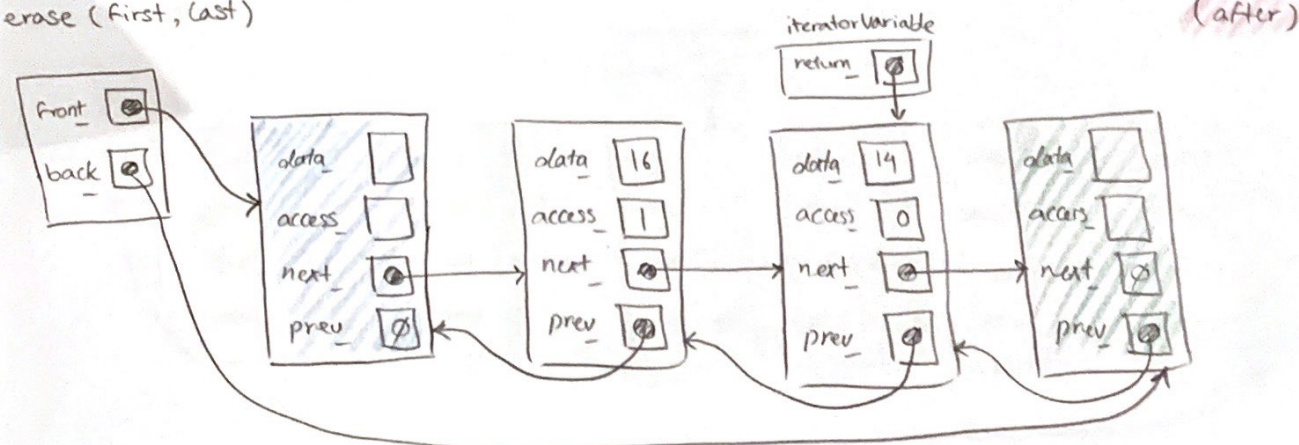
erase (first, last) Result



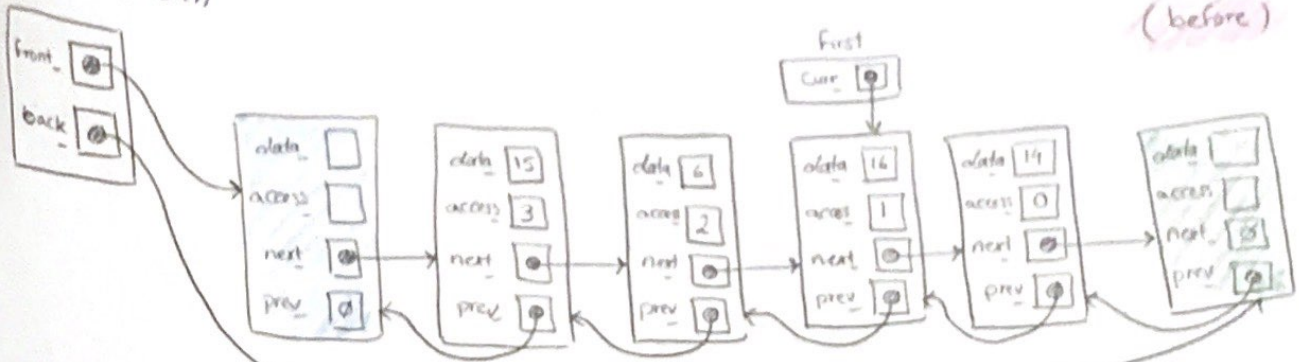
erase (first, last)



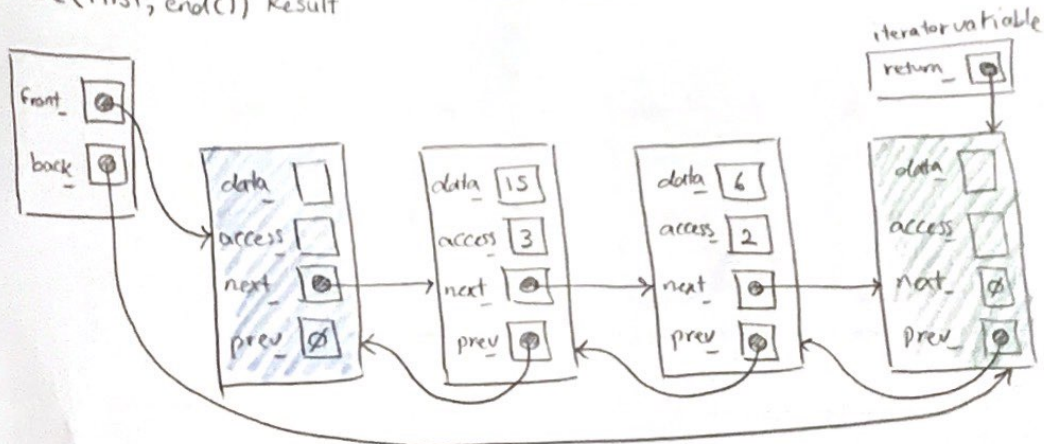
erase (first, last)



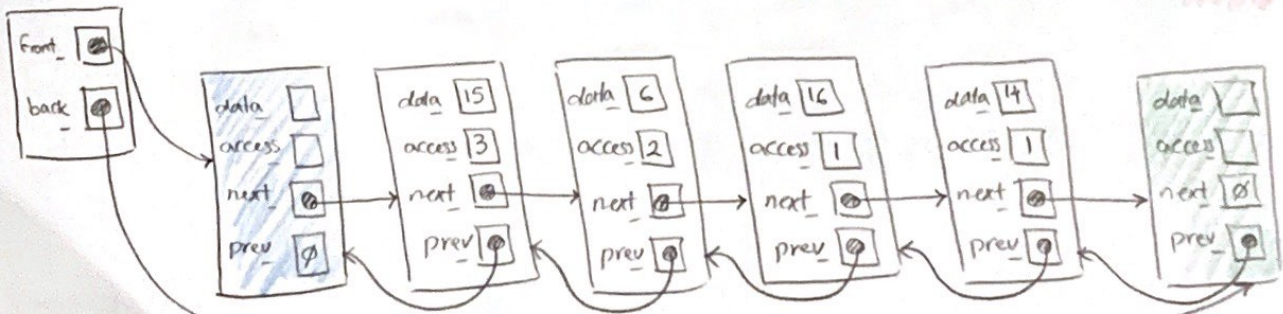
erase (First, end())



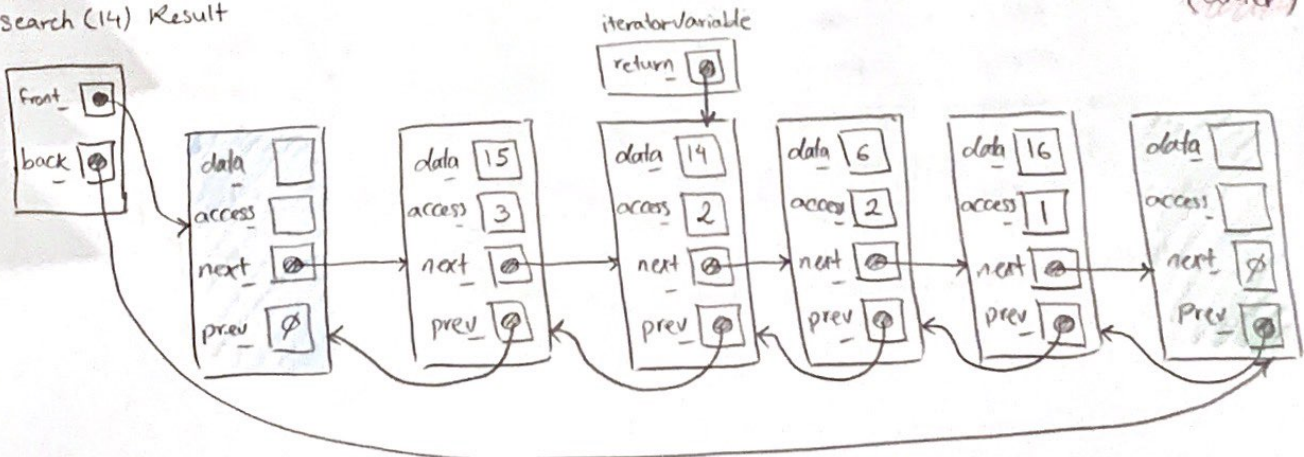
erase (First, end()) Result



Search (14)

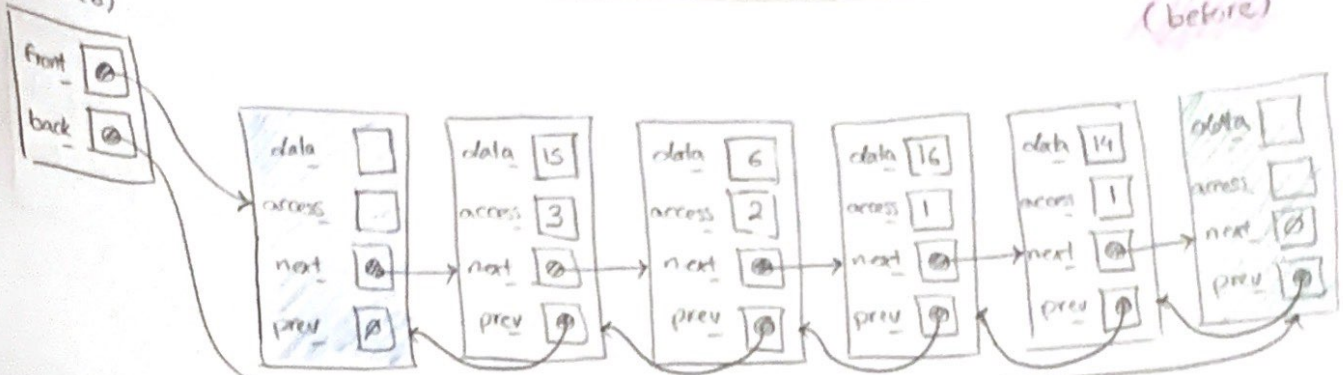


Search (14) Result



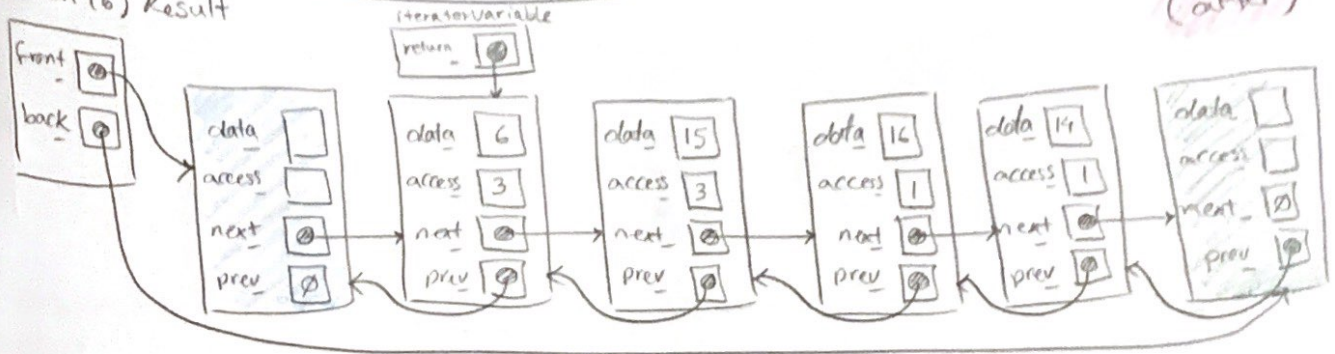
Search (6)

(before)



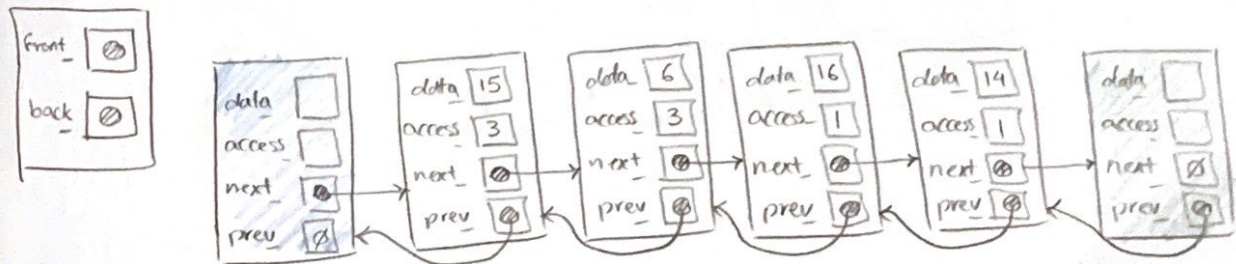
Search (6) Result

(after)

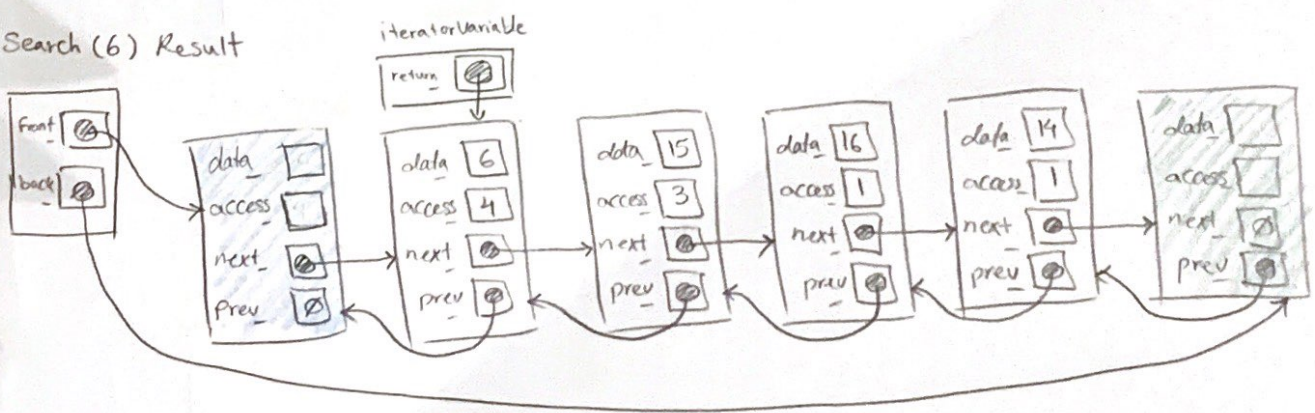


Search (6)

(before)



Search (6) Result

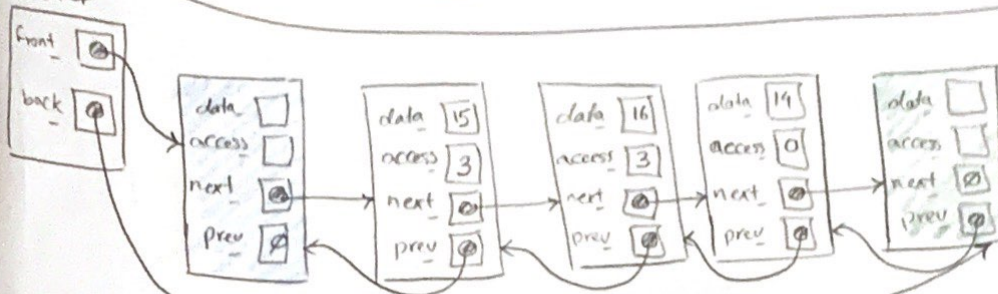


before list. merge (other)

(before)

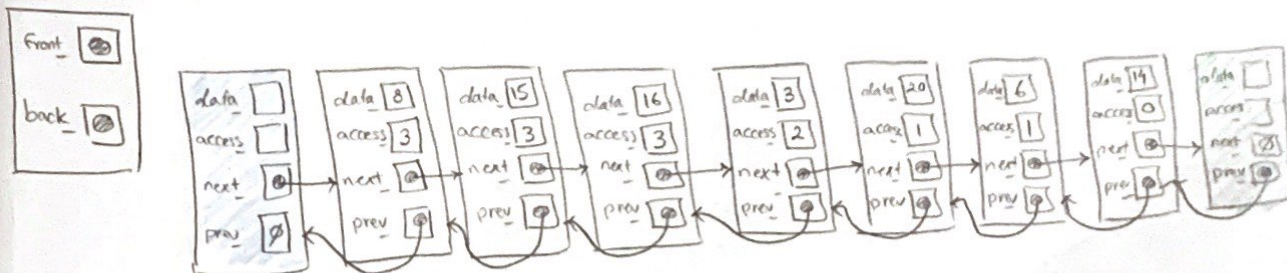


Other

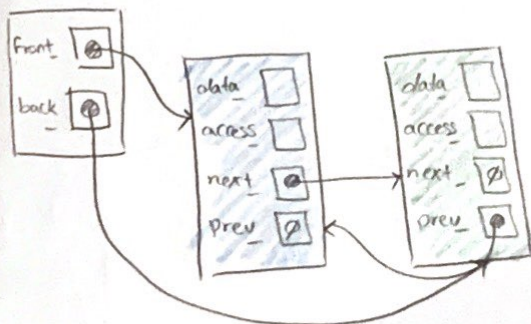


Current Object

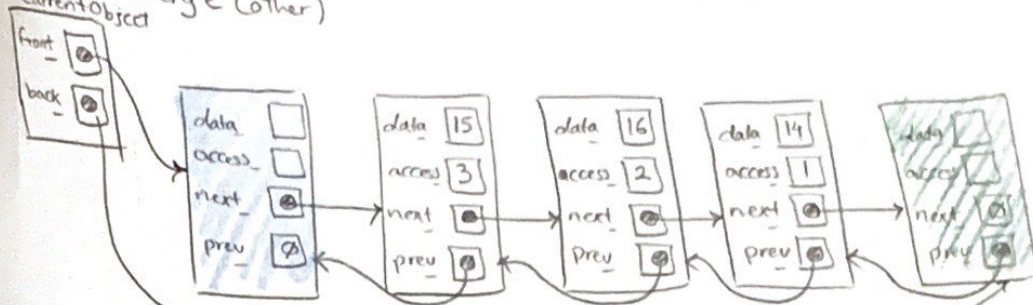
(after)



Other



before list merge (other)



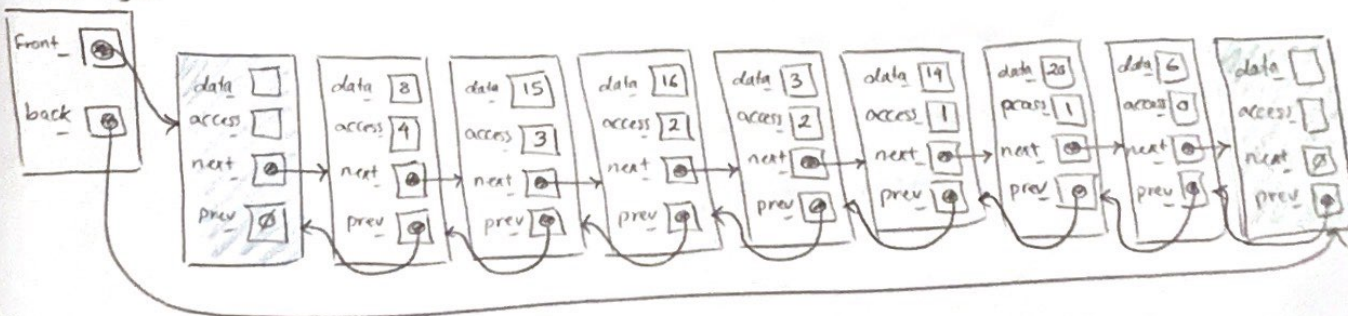
(before)

other



(after)

Current Object



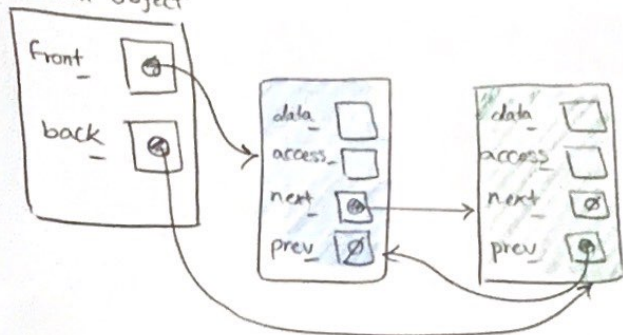
other



Copy Constructor -

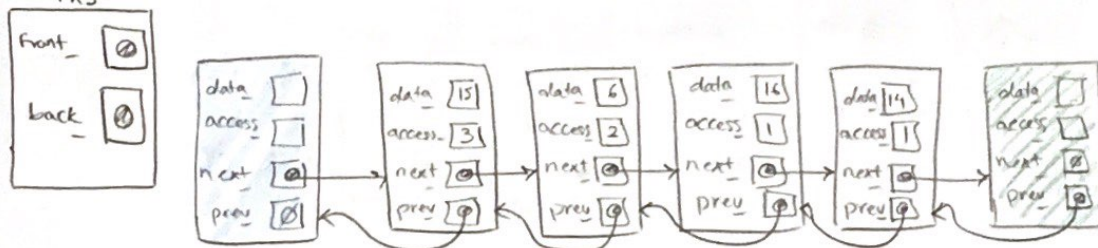
cachelist(rhs);

current object



Copy constructor will deallocate the memory and return to the safe state.
all the garbage values will be gone.

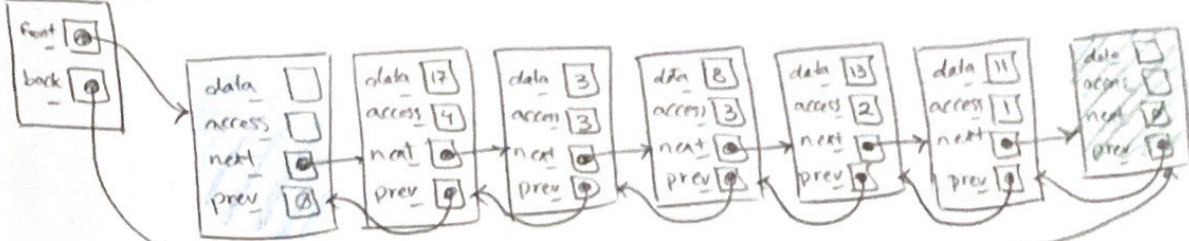
rhs



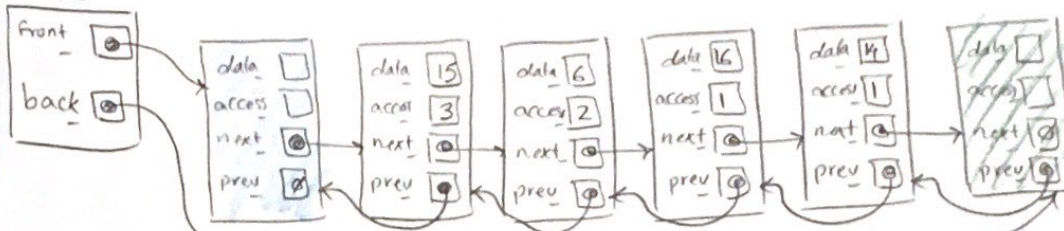
Then call the assignment operator to deep copy the rhs.
current object will hold exact same data as rhs.
In other words we duplicate the data.

Copy assignment

Current object



rhs

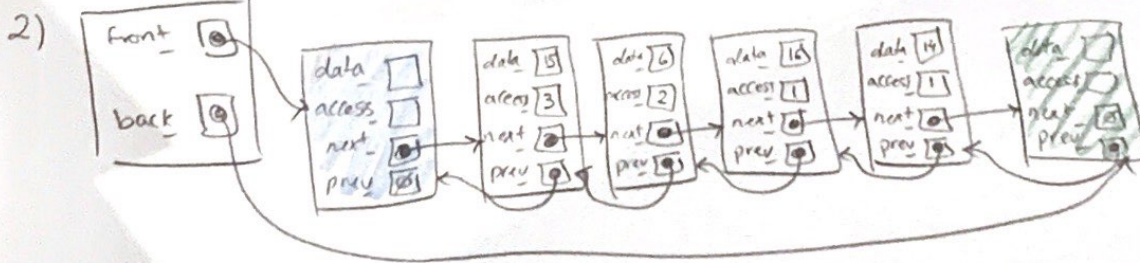


Current Object



Deallocate the memory

Current Object



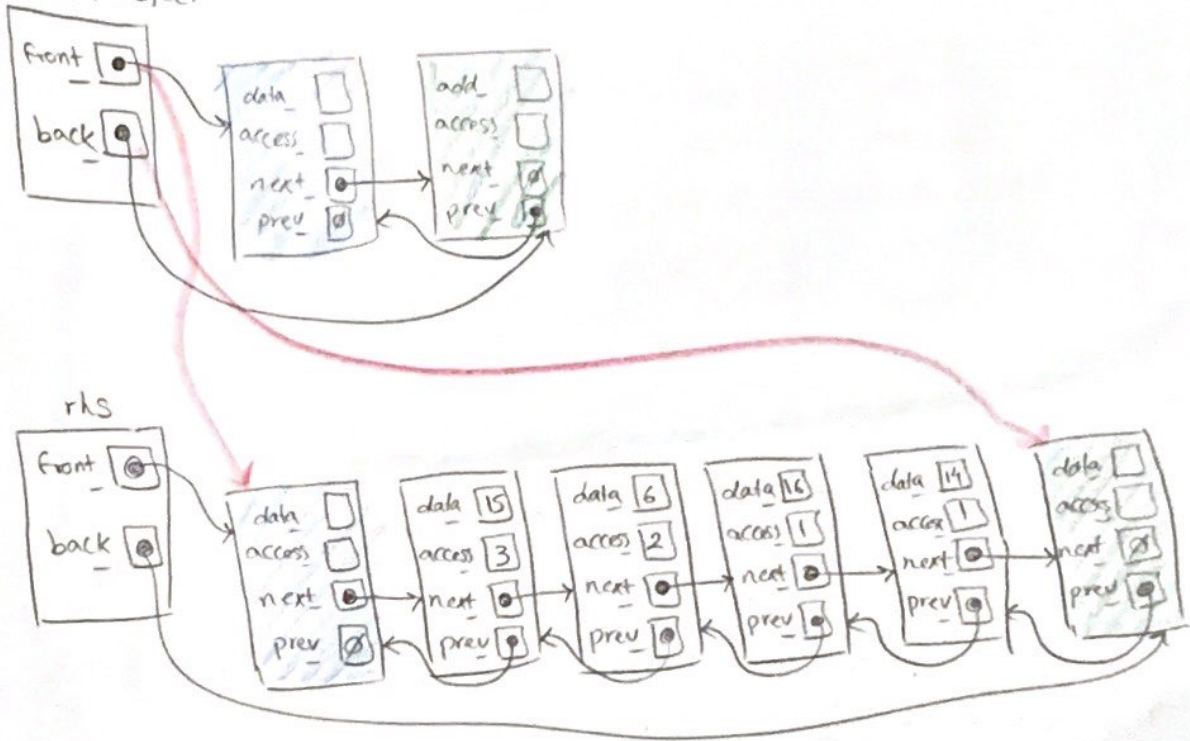
rhs



will stay the same as above
The data will be duplicated

move constructor
CashList (rhs)

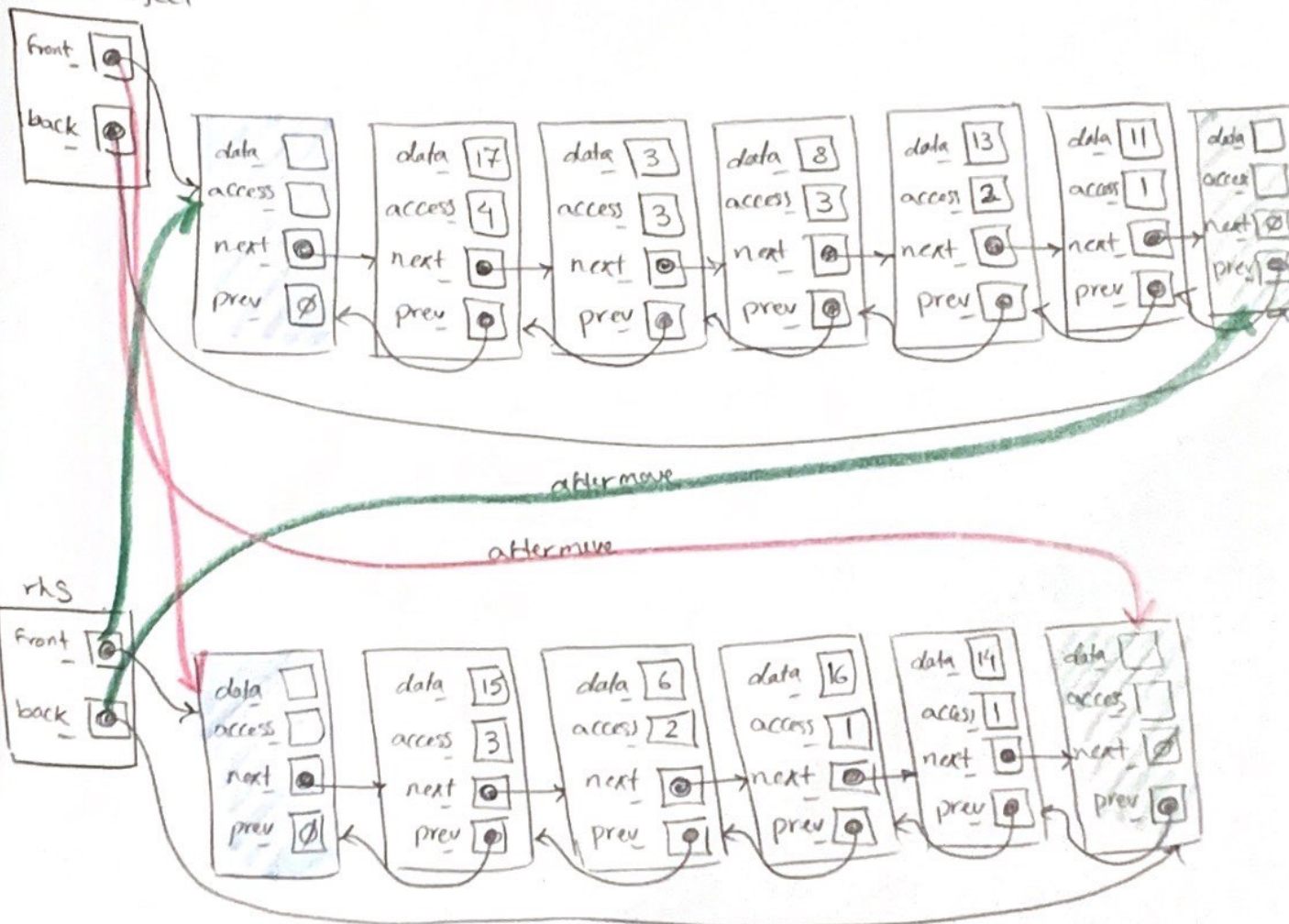
current object



At First current object holding garbage data. the constructor will make it null ^{by deallocating memory} then shallow copy the rhs. both rhs and current object pointing to the same data.

move assignment

current object



In move assignment;

rhs data's will move to current object. In other words will shallow copy there. Simply current object will point to rhs data and rhs could point to current object data. the red lines will show the pointing. So current object will hold rhs data and rhs will hold current object data's.