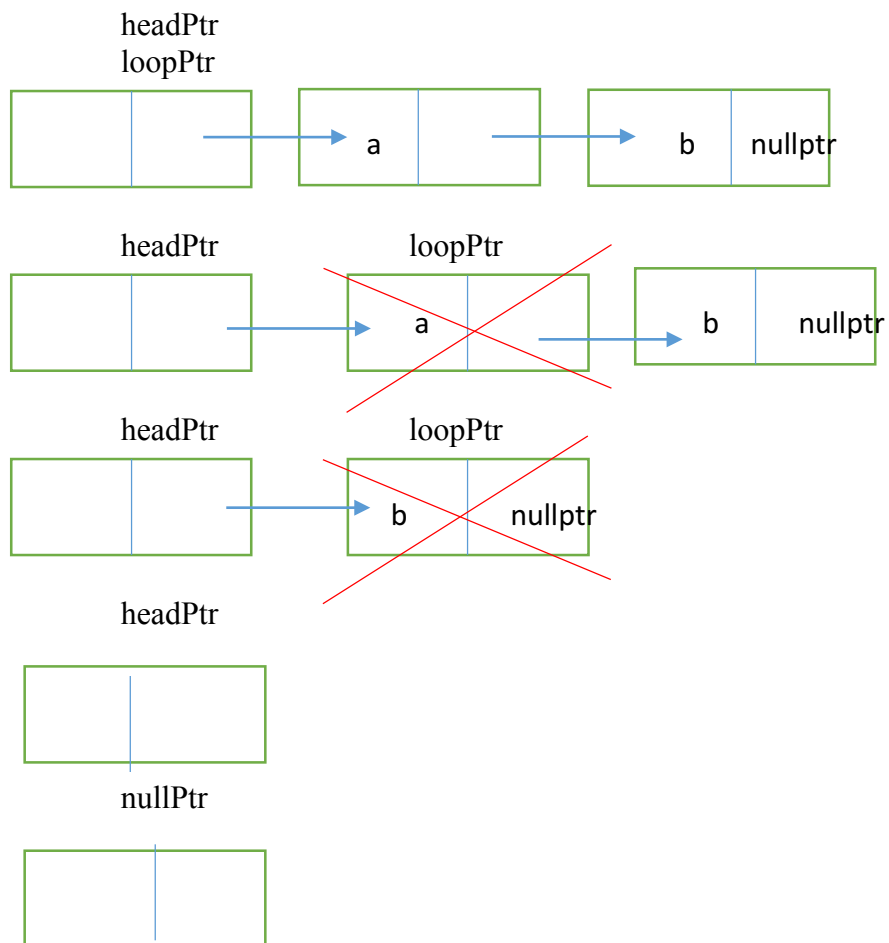


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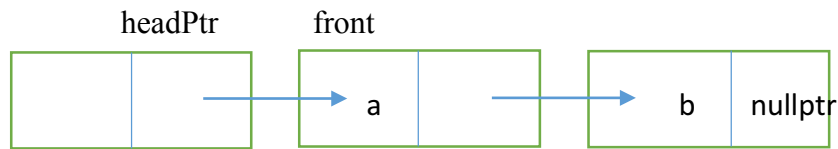
1b)

```
~List() {  
    loopPointer = headPointer  
    while loopPointer is not at end  
        tempPointer = loopPointer  
        delete tempPointer  
        increment loopPointer to next pointer in list  
    end while  
    headPointer = nullptr  
}
```



1c)

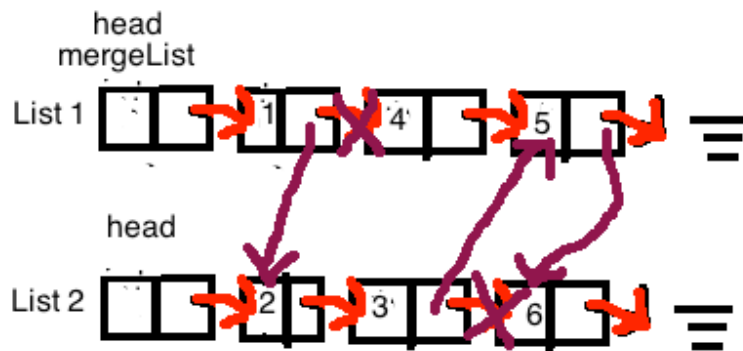
```
front () {  
    return the data of the Node after head  
}
```



Returns the front so link is not changed

1d)

```
merge ( List 2) {  
    mergeList = head of first List (doesn't matter which head we do)  
    firstLoop = pointer after head  
    secondLoop = pointer after List 2 head  
    while (firstLoop is not at end and secondLoop is not at end)  
        if firstLoop's data is less than secondLoop's data  
            increment first Loop and mergeList  
            (next node on MergeList is in 1st list so we don't need to break link)  
        else  
            set link to second loop  
            increment second loop and mergeList  
            (next node on MergeList is in 2nd list so we need to break link)  
    end while  
    while secondLoop is not at end (if List 2 is bigger than first List)  
        add whatever is left in List 2 to the mergeList  
    end while  
    List 2 headptr = nullptr  
}
```

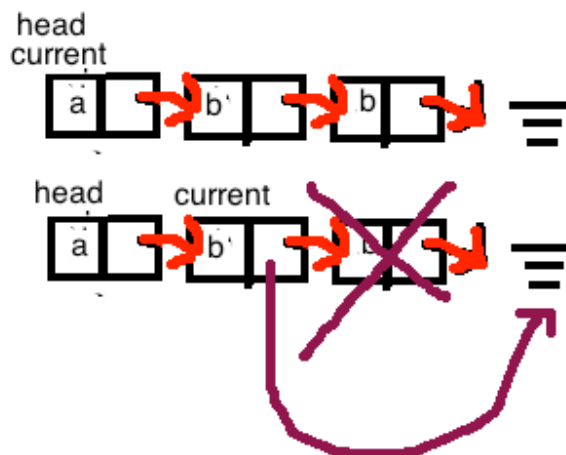


1e)

```

remove_adjacent_dupe() {
    currentPointer = headPointer
    while the next pointer is not null pointer
    if this data == next data
        temp = next pointer
        currentPointer = pointer after temp
        delete temp
    else
        increment the currentPointer to next pointer
    end if
end while

```



}

1f)

```

remove_if(predicate) {
    currentPointer = headPointer

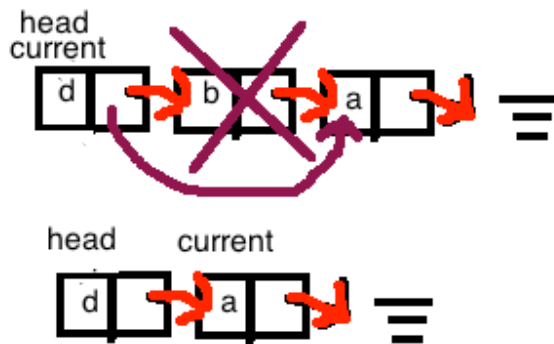
```

```

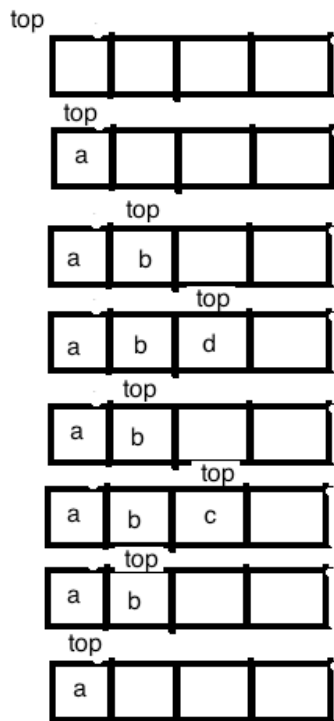
while the next pointer is not null pointer
if predicate of the data of the next pointer is true
then erase_after this pointer
else
increment the current pointer to next power
end if
end while
}

```

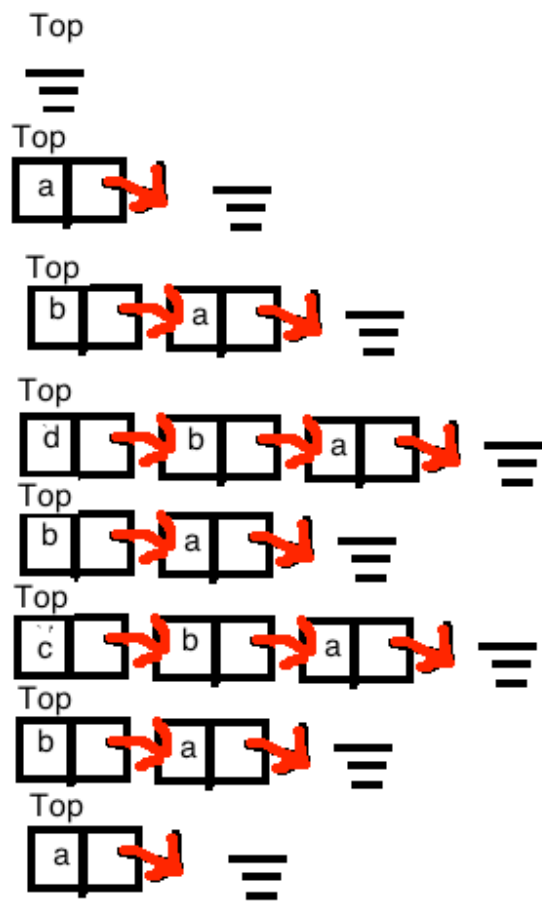
pred(b) is true



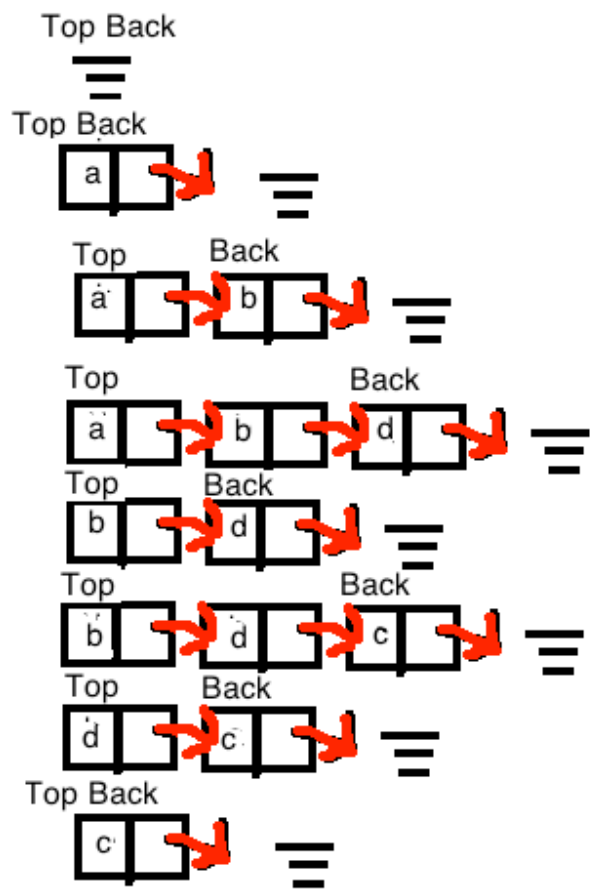
2)



3)



4)



5)
top back

