

Design Notebook - Assignment #9

Wednesday, April 22, 2020 12:35 PM

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Problem

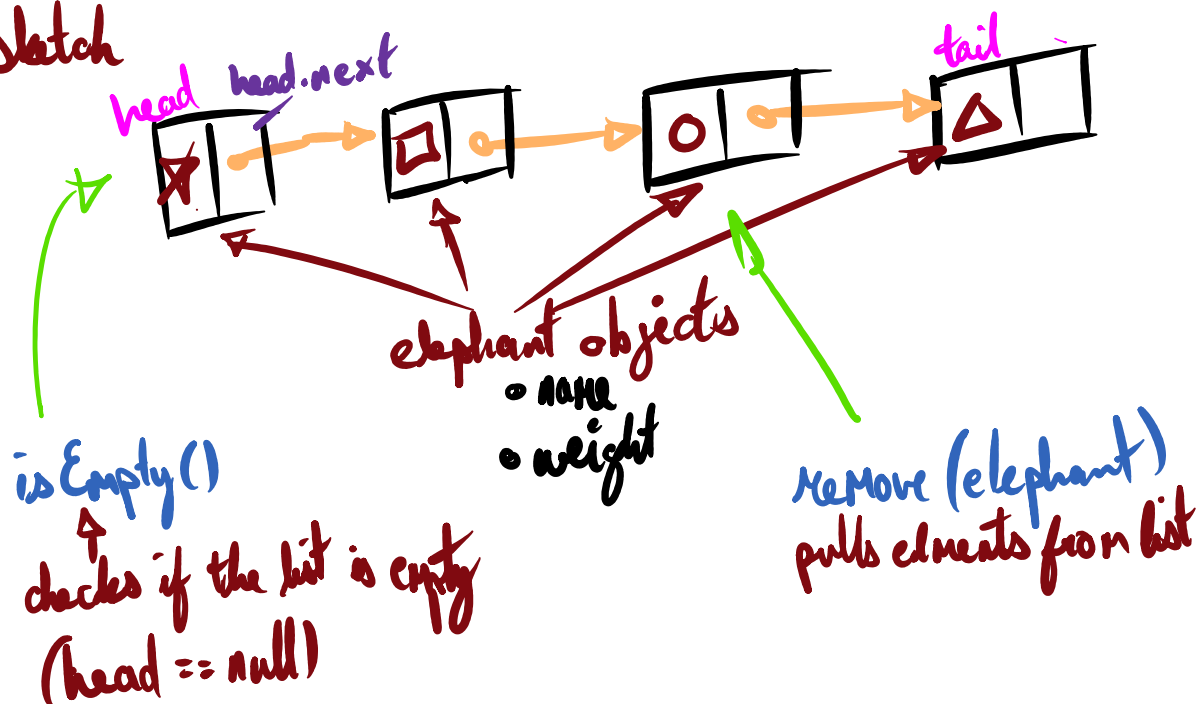
Create a linked list of elephant objects. Iterate through to add up the weights of the elephants. Then iterate through, printing the "heaviest" elephant before removing them.

Understandings

What I do know: travelling through ArrayLists and object creation - subclasses

What I don't: Linked list creation + implementation. Removing objects from linked list

Sketch



Pseudocode

```
main() {
```

```
ElephantLinkedList linkedList = new ElephantLinkedList();
```

```
while (scanner.hasNext()) {  
    read file w/ scanner + create elephant objects w/ data  
    linkedList.add(elephant object created)  
}  
close scanner  
// print a header  
linkedList.printList() - prints out name + weight of all  
                        elephants
```

```
// Step 2 header  
int = linkedList.getTotalWeight()  
print total weight
```

```
// Step 3 header  
while (linkedList is not empty) {  
    print out heaviest elephant  
    remove heaviest elephant from list  
}
```

```
} // main
```

What I've learned:

- Creation + manipulation of linked list - particularly remove

for arbitrary lengthed lists

- Reminder about isEmpty() method for objects
- Improved syntax - fewer syntax errors