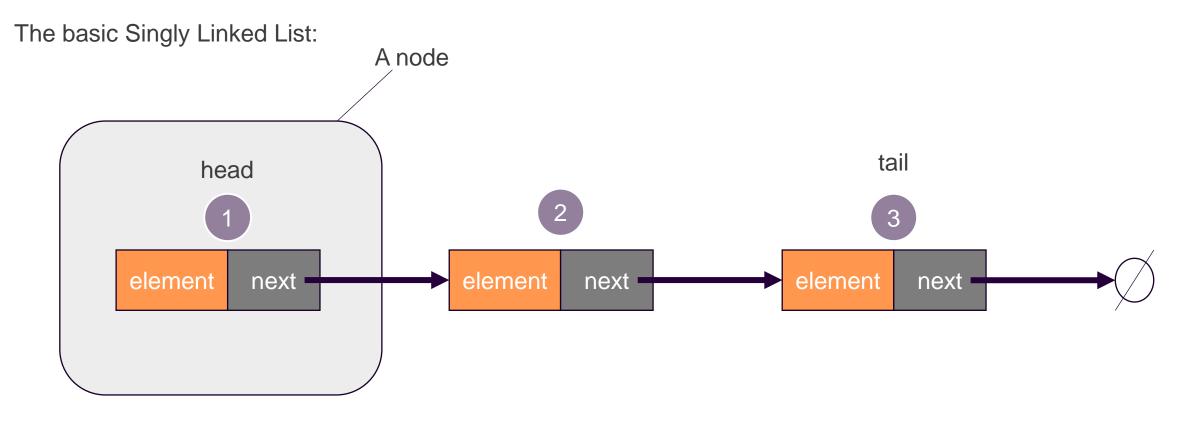


# **Singly Linked Lists:**



Size = 3



## Looking at:

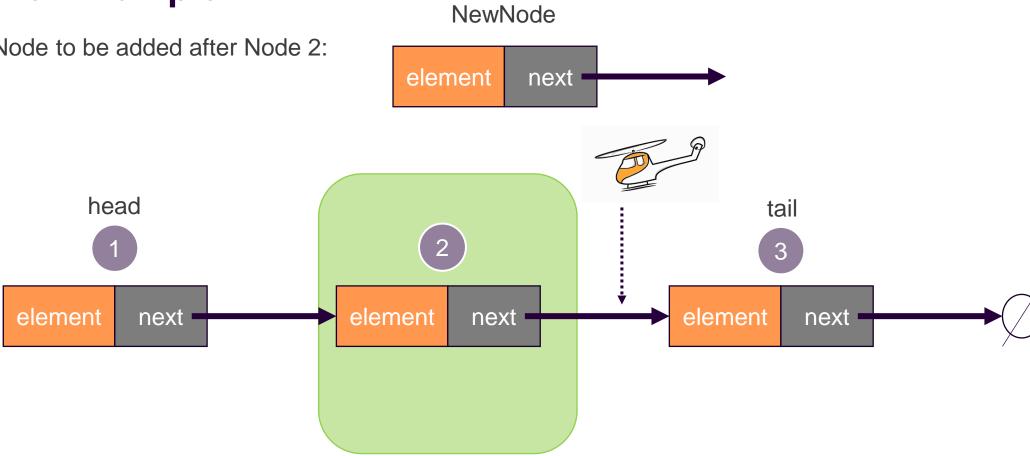
# The "add after" method

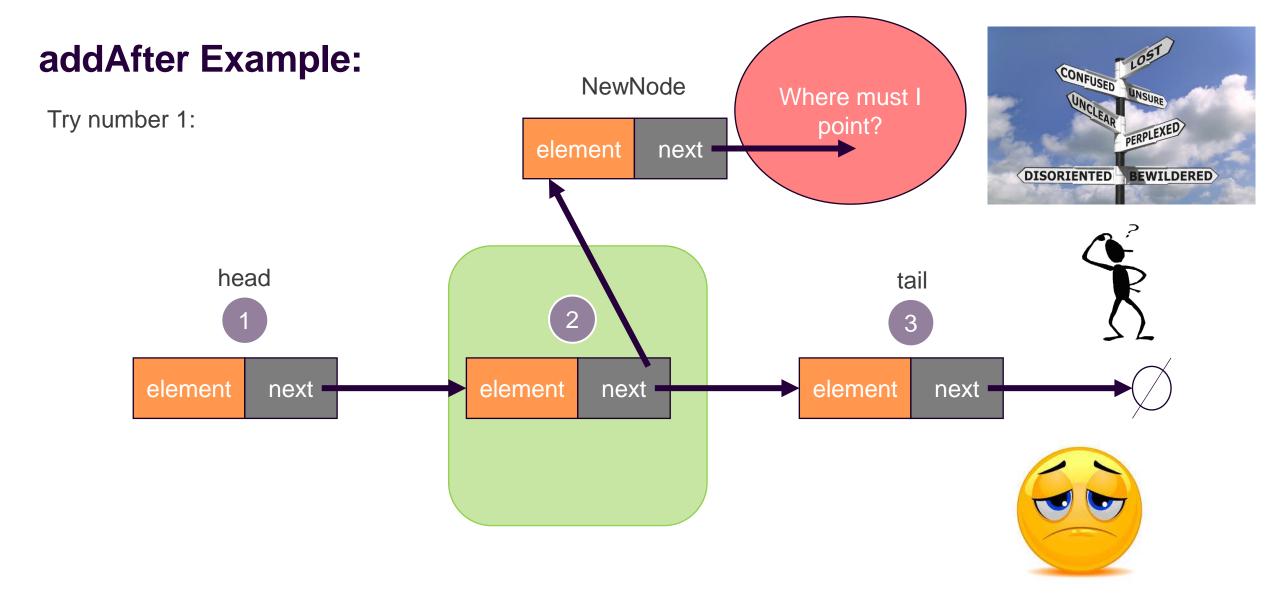
-Add an element after the given node



## addAfter Example:

1. NewNode to be added after Node 2:





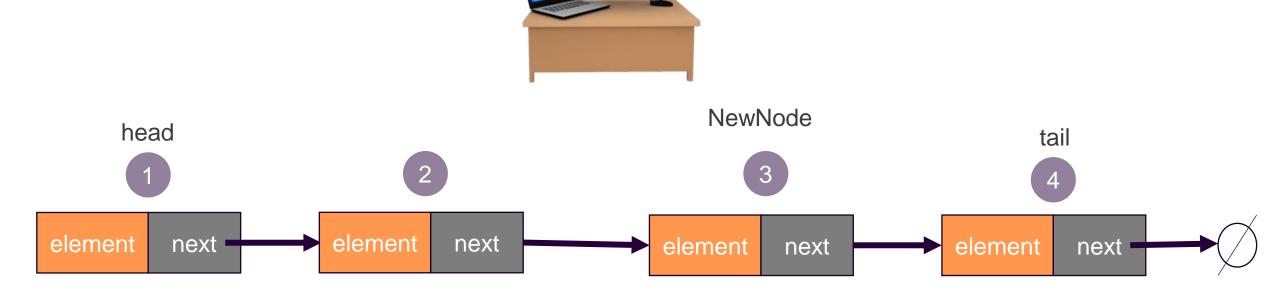


# addAfter Example: NewNode element next head tail element element element next • next • next



## addAfter Example:

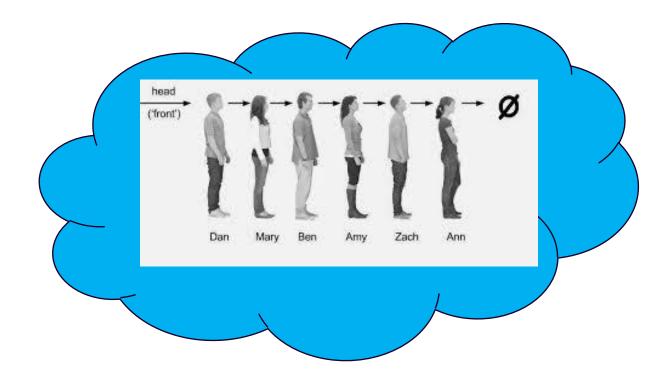
The new list:



Size = 4



# Draw it or visualize what you are trying to achieve









## **Singly Linked List Methods to Implement:**

- prev(givenNode) => return the node before the given node
- replace(givenNode, newItem) => return old item
- insertAfter (givenNode, itemToAdd) => return new Node
- insertBefore (givenNode, itemToAdd) => return new Node
- remove (nodeToRemove) => return removed item
- search (itemToSearch) => return node containing itemToSearch
- toString () => return String representation of SLL



## **Main Class Methods to Implement:**

- writeProductItemToFile => Write list of objects to a file
- readProductItemsFromFile => Read objects from a file and return the list

The **ObjectInputStream** / **ObjectOutputStream** classes handle the(de)serialization of objects.

Writing an object to a binary file requires **serializing** it.

To allow serialization, objects only need implement java.io.Serializable