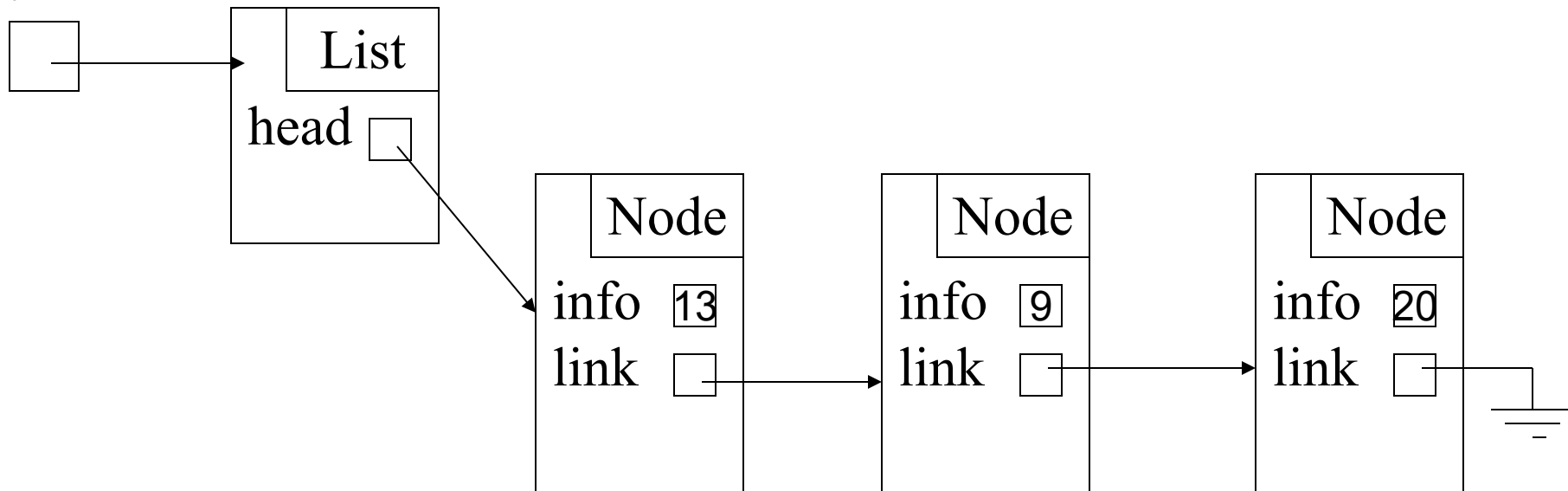


Deleting a node

Problem

- Consider the following linked list where we wish to remove a specific Node.

myList



Solution

- Step 1: Find the correct location of the Node to be removed
- Step 2: Adjust the links so that this Node is snipped out
 - The reference to the deleted node is redirected to the following node (or null if there is no following node)

The Syntax

- The following method *delete* will receive a variable called *item* of type *int*.
 - This method will traverse through the linked list and delete the first Node containing *item*
- Again, we need to create two reference variables. One pointing to the current Node and one pointing to the previous one.

```

public void delete (int item)
{
    //SEARCH FOR NODE
    Node current = head; // current points to the current Node
    Node previous = null; // previous points to the previous Node
    // The new Node will be inserted between previous and current
    boolean found = false; // Once the Node is found, found will be true
    while (found==false && current != null){
        if (item == current.info)
            found = true;

        else
        {
            previous = current; // moves along the list
            current = current.link;
        }
    }

    // DELETE NODE
    if (found == true) { // Node was found in list
        if (current == head)
            head = head.link; // if Node being removed is first Node
            // That is there is no previous.link
        else
            previous.link = current.link; //bypass current
    }
}

```