

Credit Name:CSE3110

Assignment Name:QueueList

Describe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

There are multiple errors in this code:

```
package Mastery;

import Skillbuilding.Node;

public class QueueList {
    private Node head;

    public QueueList()
    {
        head = null;
    }

    public void addatfront(String str)
    {
        Node newNode = new Node(str);
        newNode.setNext(head);
        head = newNode;
    }

    public void dequeue()
    {
        Node current = head;

        head = current.getNext();
    }

    public Object front()
    {
        return(head.getData());
    }

    public Object Top()
    {
        return(head.getData());
    }
}
```

```

public String toString()
{
    Node current = head;
    String listString;

    if(current != null)
    {
        listString = "Current items are:" + "\n" + current.getData() + "\n";
        while(current.getNext() != null) {
            current = current.getNext();
            listString += current.getData() + "\n";
        }
        return(listString);
    }
    else
    {
        return("There are no items in the stack.");
    }
}

public String Size()
{
    Node current = head;
    int count = 0;

    if(current != null)
    {
        count++;
        while(current.getNext() != null)
        {
            current = current.getNext();
            count++;
        }
        return("There are " + count + " items in the queue.");
    }
    else
    {
        return("There are " + count + " items in the queue.");
    }
}

public void enqueue(String str) {
//Create a new node

```

```

Node current = head;
Node newNode = new Node(str);
if(head == null) {
    head = newNode;
    head.setNext(null);
}
else{
    //iterate to the last node
    while(current.getNext() != null) {
        current = current.getNext();
    }
    //Append the new node to the end
    current.setNext(newNode);
}

}

public void makeEmpty()
{
    head = null;
}
}

```

1. Error: Missing import statement for the Node class.
 - Fix: Add the necessary import statement for the Node class (import Skillbuilding.Node;).
2. Error: Inconsistent indentation in the enqueue method.
 - Fix: Maintain consistent indentation by aligning the code properly within the method.
3. Error: In the toString method, the return statement within the else block mentions "stack" instead of "queue."
 - Fix: Update the return statement to indicate "queue" instead of "stack."
4. Error: In the Size method, the return statement for an empty queue includes a count of items.
 - Fix: Change the return statement to mention "0 items" instead of using the count variable.