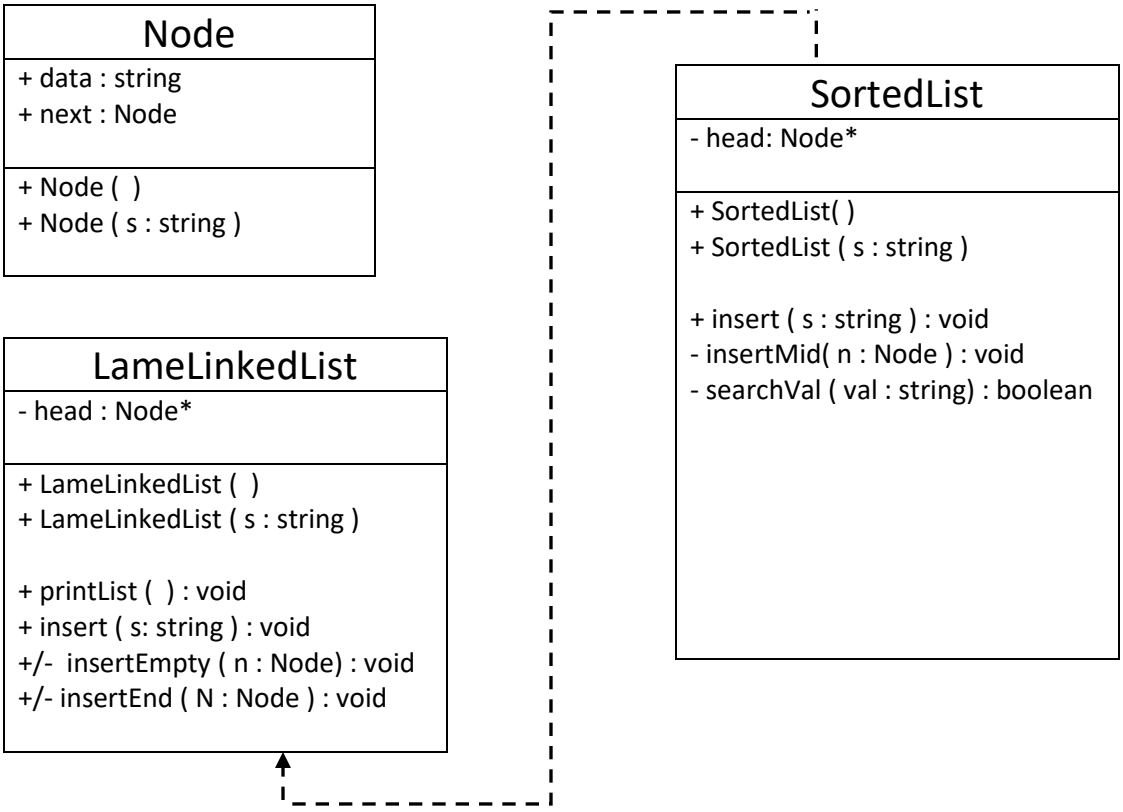
CSCI 232 Data Structures & Algorithms
OOPSortedLinkedList program **Due October 4, 2023**

This is a larger program, that combines more advanced object-oriented programming with Linked List operations. The program will illustrate many object-oriented principles, including:

- Multiple classes
- An inheritance relationship between classes
- Has-a and is-a relationships between classes
- Public / private / protected
- Various levels of abstraction
- An overriding function (polymorphism)
- Introduction to UML

Classes (in simple UML format):



Additional SortedList Functionality:

- Search for a position in the list (i.e. searchList(i) will return the string at position I or an error if the position does not exist.
- Find the length of the list, returns an int
- Insert a node into the list, returns the list or no return value
- Remove a node from the list using the value, returns the list or no return value
- Remove a node from the list at a position, returns the list or no return value
- Print the list, no return value
- Delete the list, returns a boolean