R·I·T	Rochester Institute of Technology Golisano College of Computing and Information Sciences School of Interactive Games and Media

Name: _____

PE19 - Practice Exercise

Linked Lists

Objective:

Practice implementing parts of a Linked List since you'll be implementing a Linked List in the next homework assignment.

Details:

1. Start with the Linked List demo from today.
    a. In the demo, we created a singly-linked list.
    b. We wrote an Add method which adds data to the end of the list.
    c. We created a Traverse method, which loops through the list and prints all of the data.

2. Create a method called "GetData" in the LinkedList class.

    a. It should take one parameter: the index of the data to retrieve and returns a String

    b. There are two possible scenarios you need to handle:

        i. If the index is invalid (less than zero or >= the count), return null.

        ii. If the index is anything else, you're going to need to loop through the list to find the data. Start at the head node and loop a set number of times. Return the data of the node that you stop on.

3. In your test class, make sure your LinkedList has at least 5 pieces of data. Print them all out (using the Traverse method).

4. Use the GetData method to get several individual Strings and print them out on separate lines.

Make sure you follow the coding standards for all code you create.

Submit your work to the PE19 dropbox.

Rubric:

Note: code that fails to compile gets you an automatic zero for the entire assignment. Check your work before you submit it!

Criteria	Max Pts	Earned Pts
Code compiles and executes	40	
Code solves the stated problem	40	
Coding standards are followed	20	
Questions answered correctly (if applicable)	N/A	
Deductions: • Code does not compile • Nothing submitted	 -100 -100	
Total Grade:	100	