Wyo Data Structures Name –
Ch. 3 Worksheet #1

1. What would the following member function do if it were added to the author's LinkedList class?

```
template <class E>
E LinkedList<E>::mystery()
{
      node *nodePtr;
      first();

      for (nodePtr = myFirst; nodePtr; nodePtr = nodePtr->next)
      {
            next();
      }

      return myPrevious->data;
}
```

2. Rewrite the member function mystery so that it uses an indeterminate loop.

3. Assume that a linked list (based on the author's LinkedList class) contains nodes whose data members are sorted in ascending order. Write a new member function named insertInOrder that accepts a data element as a parameter and that inserts a new node that contains this data value so that the linked list is maintained in alphabetical order. You may assume that the comparison operators (<, >, etc.) can be used with the data elements of the list. Be sure to test your solution thoroughly with various test cases.