AP Con	puter Science
Linked 1	List Lab 1

Name
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Objective: In this lab you will perform several tasks on a singly linked list.

First finish writing the SinglyLinkedList class. The file SinglyLinkedList.java file is in the class conference Files folder.

Secondly write a menu-driven program called ListTest.java to demonstrate that all of the methods in your new class are fully functioning.

Finally in addition to a direct demonstration of the methods, write the following methods:

rotateList Splits off the first node of a nonempty list and append it to the end.

inOrder Return true if a list is in ascending order and return false if it is not.

putInOrder "Sort" the list by putting the elements in ascending order. Duplicates are allowed,

deal with them.

Use the ListNode.java class for your node definition, and use the Iterator SinglyLinkedListIterator.java when appropriate.

Be sure to test your code with empty lists, lists containing just one node, and lists containing more than one node.