

CSCI 2235

Programming Assignment 02 - Lists Key

Solution Key

Assigned: September 23, 2019
Due: October 04, 2019 @ 23:00h

1 Evaluation of Code

Run the tests, for any failures use the number of tests for that feature and divide that features total points by the number of tests for that feature. Use this to determine the point value to subtract for errors.

- Singly Linked List:
 - **public** E first () implemented correctly – 1 points
 - **public** E last() implemented correctly – 1 points
 - **public void** addLast(E element) implemented correctly – 2 points
 - **public void** addFirst(E element) implemented correctly – 1.5 points
 - **public** E removeFirst() implemented correctly – 1 points
 - **public** E removeLast() implemented correctly – .5 points
 - **public void** insert(E element, **int** index) implemented correctly – 2.5 points
 - **public** E remove(**int** index) implemented correctly – 2 points
 - **public** E get(**int** index) implemented correctly – 3 points
 - **public void** printList() implemented correctly – 1 points
- Doubly Linked List:
 - **public** E first () implemented correctly – 1 points
 - **public** E last() implemented correctly – 1 points
 - **public void** addLast(E element) implemented correctly – 2 points
 - **public void** addFirst(E element) implemented correctly – 1.5 points
 - **public** E removeFirst() implemented correctly – 1 points
 - **public** E removeLast() implemented correctly – .5 points
 - **public void** insert(E element, **int** index) implemented correctly – 2.5 points
 - **public** E remove(**int** index) implemented correctly – 2 points
 - **public** E get(**int** index) implemented correctly – 3 points
 - **public void** printList() implemented correctly – 1 points
- Scoreboard class
 - add method implemented correctly – 6 points

- remove method implemented correctly – 8 points
- Followed good programming practice:
 - Program by Contract - 2 points - Verify that they utilize the interface List for list type fields/variables in their code, rather than the specific type. Note that this is not for the assignment of values to that type using the new keyword.
 - Code is Commented 3 points should have good comments, beyond those that I added (Classes should have header comments, including their name, and methods should have doc comments).