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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

# **Class ClassList**

java.lang.Object ClassList

public class ClassList
extends java.lang.Object

Represents a doubly-linked list made up of students. NOTE: You may NOT use the java.util.LinkedList class.

**ALL CLASSES** 

# **Nested Class Summary**

Nested Classes	
Modifier and Type	Class and Description
private class	ClassList.StudentNode  An inner class that represents a node in the class list; the public variables are accessed by the ClassList class.

# Field Summary

## **Fields**

Modifier and Type	Field and Description
private ClassList.StudentNode	end The last node in the list.
private ClassList.StudentNode	front The first node in the list.
private int	The current size of the list.

# **Constructor Summary**

# Constructors

# **Constructor and Description**

ClassList()

# **Method Summary**

All Methods	Instance Methods	Concrete Methods		
Modifier and Type Method and Description				
void	Add a new r	add(Student studentIn) Add a new node representing a specified student at the appropriate position in the list; proper ordering of the students must be maintainted.		
int	•	<pre>getNumStudents() Returns the number of students currently in the list.</pre>		
Student[]	Creates and	<pre>getReversedList() Creates and returns an array containing all of the Students in this list, stored in reverse order in the array (ie: index o contains the last element in the list).</pre>		
void	·	remove(Student studentOut) Removes from this list the node containing the specified student.		
java.lang.Str	· · · · · · · · · · · · · · · · · · ·	toString() Returns a textual string of the contents of the list in order.		

# Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, wait, wait, wait

# Field Detail

## front

private ClassList.StudentNode front

The first node in the list.

## end

private ClassList.StudentNode end

The last node in the list.

## size

private int size

The current size of the list.

## Constructor Detail

#### ClassList

public ClassList()

Constructs an empty list.

# **Method Detail**

## getNumStudents

public int getNumStudents()

Returns the number of students currently in the list.

#### Returns:

The number of students in the list.

#### add

public void add(Student studentIn)

Add a new node representing a specified student at the appropriate position in the list; proper ordering of the students must be maintainted.

#### Parameters:

studentIn - The student to be added to the list.

#### remove

public void remove(Student studentOut)

Removes from this list the node containing the specified student.

### Parameters:

studentOut - The student to be removed from the list.

### Throws:

??? - (you decide the exception) if not found.

## getReversedList

public Student[] getReversedList()

Creates and returns an array containing all of the Students in this list, stored in reverse order in the array (ie: index o contains the last element in the list).

#### Returns:

The list of Students as an array in reverse.

# toString

public java.lang.String toString()

Returns a textual string of the contents of the list in order.

Overrides:

toString in class java.lang.Object

Returns:

The list of students.

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