PREV CLASS NEXT CLASS

FRAMES NO FRAMES

**ALL CLASSES** 

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

edu.gmu.cs.swe619.assignments.assignment04

## Class GrowList<E>

java.lang.Object

edu.gmu.cs.swe619.assignments.assignment04.GrowList<E>

public class GrowList<E> extends java.lang.Object

GrowList is a mutable list that only gets longer.

## **Constructor Summary**

## **Constructors**

## **Constructor and Description**

GrowList()

Create a new GrowList

# **Method Summary**

| All Methods      | Static Methods  | Instance Methods  | Concrete Methods    |  |
|------------------|---|---|---------------------|--|
| Modifier and Typ | e Method a  | Method and Description  |                     |  |
| void             | ·   | add(E o) Add to the end of the list   |                     |  |
| Е                |   | <pre>get(int i) Get ith value in list</pre>                                     |                     |  |
| static void      |   | <pre>main(java.lang.String[] args) Main method with a simple test routine</pre> |                     |  |
| Е                | •   | <pre>set(int i, E o) Update ith value in list</pre>                             |                     |  |
| int              | size()<br>Number  | size() Number of elements in list   |                     |  |
| java.lang.Str    | toString() Serves as the abstraction function (AF) for GrowList |   | n (AF) for GrowList |  |

# Methods inherited from class java.lang.Object

equals, getClass, hashCode, notify, notifyAll, wait, wait, wait

## **Constructor Detail**

### **GrowList**

public GrowList()

Create a new GrowList

## **Method Detail**

### add

public void add(E o)

Add to the end of the list

### Parameters:

o - the new element to add to the list

Throws:

java.lang.RuntimeException - if the rep invariant is violated

## size

public int size()

Number of elements in list

Returns:

size of the list

## get

public E get(int i)

Get ith value in list

## Parameters:

i - the index to retrieve an element from

Returns:

the element at index i
Throws:
java.lang.IndexOutOfBoundsException - if index i is not valid

#### set

Update ith value in list

### Parameters:

i - index of element to replace

o - new element to save at index i

### Returns:

previous value or null if none

### Throws:

java.lang.IndexOutOfBoundsException - if index i is not valid

java.lang.RuntimeException - if the rep invariant is violated

## toString

public java.lang.String toString()

Serves as the abstraction function (AF) for GrowList

### Overrides:

toString in class java.lang.Object

### Returns:

a string representing the GrowList

### main

public static void main(java.lang.String[] args)

Main method with a simple test routine

### Parameters:

args - command line arguments

PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

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