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 GrowListMutation1<E>

java.lang.Object

edu.gmu.cs.swe619.assignments.assignment04.GrowListMutation1<E>

public class GrowListMutation1<E> extends java.lang.Object

GrowList is a mutable list that only gets longer.

Constructor Summary

Constructors

Constructor and Description

GrowListMutation1()

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, contains a mutation.</pre>		
int	size() 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

GrowListMutation1

public GrowListMutation1()

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:

```
Throws:
java.lang.IndexOutOfBoundsException - if index i is not valid
```

set

Update ith value in list, contains a mutation.

NOTE: This method contains a mutation that makes it incorrect because the validity of the index is not checked!!

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

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