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ALL CLASSES

SUMMARY: NESTED | FIELD | CONSTR | METHOD

DETAIL: FIELD | CONSTR | METHOD

edu.gmu.cs.swe619.assignments.assignment03

Class GrowList<E>

java.lang.Object

edu.gmu.cs.swe619.assignments.assignment03.GrowList<E>

Type Parameters:

E - the type of object to store in the list

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

GrowList is a list that only gets longer. It is immutable, meaning that instances can never be changed after creation. Rather, operations on a GrowList object will return a new instance.

Constructor Summary

Constructors

Constructor and Description

GrowList()

Construct an empty GrowList

Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods	
Modifier and Typ	pe Method a	Method and Description		
GrowList <e></e>	add(E o)Add to the end of the list			
		<pre>get(int i) Get ith value in list.</pre>		
static void main(Main		va.lang.String[] arg	gs)	
GrowList <e> set(int : Update ith</e>		i, E o) th value in list		
int	size()	size()		

Get the number of values in list

java.lang.String t

toString()

String representation of the object.

Methods inherited from class java.lang.Object

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

Constructor Detail

GrowList

public GrowList()

Construct an empty GrowList

Method Detail

add

public GrowList<E> add(E o)

Add to the end of the list

Parameters:

o - the new element

Returns:

a new GrowList, with the new element added at the end

size

public int size()

Get the number of values in list

Returns:

the list size

get

public E get(int i)

Get ith value in list. This list is o-indexed.

Parameters:

i - the index in the list to retrieve an element from

Returns:

the element in the GrowList at index i

Throws:

java.lang.IndexOutOfBoundsException - if the given index is not valid

set

Update ith value in list

Parameters:

- i the index in the GrowList to replace
- o the new object to save in the GrowList

Returns:

a new GrowList that is a copy of the original GrowList, with the specified element replaced

Throws:

java.lang.IndexOutOfBoundsException - if the given index is not valid

toString

```
public java.lang.String toString()
```

String representation of the object.

Overrides:

toString in class java.lang.Object

Returns:

the elements of the GrowList represented as a String

main

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

Main method. Runs a simple test example.

Parameters:

args - Arguments to the program

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PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

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