

edu.gmu.cs.swe619.assignments.assignment05

Class **GrowList**<E>

java.lang.Object

edu.gmu.cs.swe619.assignments.assignment05.GrowList<E>

All Implemented Interfaces:

java.lang.Iterable<E>

```
public class GrowList<E>
  extends java.lang.Object
  implements java.lang.Iterable<E>
```

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 Type	Method and Description
void	add (E o) Add to the end of the list
E	get (int i) Get ith value in list
java.util.Iterator<E>	iterator () Returns a new iterator for the list.
static void	main (java.lang.String[] args) Main method with a simple test routine
E	set (int i, E o)

Update ith value in list

int

size()

Number of elements in list

java.lang.String

toString()

Serves as the abstraction function (AF) for GrowList

Methods inherited from class java.lang.Object

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

Methods inherited from interface java.lang.Iterable

forEach, spliterator

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

```
public E set(int i,  
             E o)
```

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

iterator

```
public java.util.Iterator<E> iterator()
```

Returns a new iterator for the list.

The remove() method **IS NOT** supported in this implementation.

Specified by:

iterator in interface `java.lang.Iterable<E>`

Returns:

a reference to the new iterator object

main

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

Main method with a simple test routine

Parameters:

args - command line arguments

[OVERVIEW](#) [PACKAGE](#) **[CLASS](#)** [USE](#) [TREE](#) [DEPRECATED](#) [INDEX](#) [HELP](#)

[PREV CLASS](#) **[NEXT CLASS](#)** [FRAMES](#) [NO FRAMES](#) [ALL CLASSES](#)

[SUMMARY: NESTED](#) | [FIELD](#) | [CONSTR](#) | [METHOD](#) [DETAIL: FIELD](#) | [CONSTR](#) | [METHOD](#)