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

edu.gmu.cs.swe619.assignments.assignment05

Class GrowListWithRemove<E>

java.lang.Object
     edu.gmu.cs.swe619.assignments.assignment05.GrowListWithRemove<E>

All Implemented Interfaces:

`java.lang.Iterable<E>`

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

GrowListWithRemove is a mutable list that only gets longer.

However, it has been modified to allow the remove() method of the iterator to work as intended by the Iterable spec.

Constructor Summary

Constructors
Constructor and Description
GrowListWithRemove()   Create a new GrowListWithRemove

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

GrowListWithRemove

public GrowListWithRemove()

Create a new GrowListWithRemove

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** 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
```