

Interface List

All Superinterfaces:

java.util.Collection

public interface **List**

An ordered sequence or collection. **The List interface is only used in the AB course.**

Method Summary

boolean	add (java.lang.Object x) Append (adds) the argument to the end of this list.
java.lang.Object	get (int index) Returns the element at the specified position in this list.
java.lang.Object	set (int index, java.lang.Object o) Replaces the element at the specified position in this list with the specified object.
int	size ()

Method Detail

add

public boolean **add**(java.lang.Object x)

Append (adds) the argument to the end of this list.

Specified by:

add in interface java.util.Collection

Parameters:

x - is the element appended to this list.

Returns:

true as required by the java.util.Collection interface

get

```
public java.lang.Object get(int index)
```

Returns the element at the specified position in this list.

Parameters:

index - is the position of the element returned

Returns:

the element in this list whose position is the argument

Throws:

java.lang.IndexOutOfBoundsException - if $\text{index} < 0 \parallel \text{index} \geq \text{size}()$

set

```
public java.lang.Object set(int index,  
                             java.lang.Object o)
```

Replaces the element at the specified position in this list with the specified object.

Parameters:

index - is the position of the element that will be replaced

o - is the object to be stored at the specified position

Returns:

the element previously stored at the specified position

Throws:

java.lang.IndexOutOfBoundsException - if $\text{index} < 0 \parallel \text{index} \geq \text{size}()$

size

```
public int size()
```

Specified by:

size in interface java.util.Collection
