Package utility

Class ArrayList<E>

java.lang.Object utility.ArrayList<E>

All Implemented Interfaces:

List<E>

public class ArrayList<E>
extends java.lang.Object
implements List<E>

Field Summary

Fields

Modifier and Type	Field	Description
static int	DEFAULT_CAPACITY	

Constructor Summary

Constructors

Constructor	Description
ArrayList()	creates array list object
<pre>ArrayList(int capacity)</pre>	creates array list object for a specific capacity

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Typ	e Method	Description
void	<pre>add(int index, E item)</pre>	inserts the item at the given index in the list.
boolean	<pre>add(E item)</pre>	appends the item specified to the end of the list.
void	<pre>clear()</pre>	clears list of all elements, return size back to zero.
boolean	<pre>contains (E item)</pre>	searches for an item and returns true if in the array,

Modifier and Type	Method	Description
void	<pre>ensureCapacity (int capacity)</pre>	
Е	<pre>get(int index)</pre>	returns the item at the specified position in the list.
int	<pre>indexOf (E item)</pre>	searches for an item and returns the first occurrence in the array, otherwise returns -1, if NOT found.
boolean	<pre>isEmpty()</pre>	returns true, if the list is empty,
Iterator <e></e>	iterator()	returns an object used to traverse the elements in list
E	<pre>remove (int index)</pre>	removes the item at the given index in the list.
boolean	<pre>remove(E item)</pre>	removes the first occurrence of the specified item from the list, if present.
Е	<pre>set(int index, E item)</pre>	replaces the item at the specified position with the one passed.
int	size()	returns the number of the elements in the list.
java.lang.String	toString()	displays the contents of the list.

Methods inherited from class java.lang.Object

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

Field Details

DEFAULT_CAPACITY

public static final int DEFAULT_CAPACITY

See Also:

Constant Field Values

Constructor Details

ArrayList

public ArrayList()

creates array list object

ArrayList

```
public ArrayList(int capacity)
```

creates array list object for a specific capacity

Parameters:

capacity - of the maximum list.

Method Details

size

```
public int size()
```

returns the number of the elements in the list.

Specified by:

size in interface List<E>

Returns:

size of the list.

add

```
public boolean add(E item)
```

appends the item specified to the end of the list.

Specified by:

add in interface List<E>

Parameters:

item - in the list

Returns:

boolean value if successful.

add

inserts the item at the given index in the list.

```
Specified by:
```

add in interface List<E>

Parameters:

index - given in the list.

item - in the list.

clear

```
public void clear()
```

clears list of all elements, return size back to zero.

Specified by:

clear in interface List<E>

get

```
public E get(int index)
```

returns the item at the specified position in the list.

Specified by:

get in interface List<E>

Parameters:

index - of item in list.

Returns:

item at index.

remove

```
public E remove(int index)
```

removes the item at the given index in the list.

Specified by:

remove in interface List<E>

Parameters:

index - of item in list.

Returns:

old value in list.

remove

```
public boolean remove(E item)
```

removes the first occurrence of the specified item from the list, if present.

Specified by:

remove in interface List<E>

Parameters:

item - to remove from list.

Returns:

boolean value.

set

replaces the item at the specified position with the one passed.

Specified by:

set in interface List<E>

Parameters:

index - to replace list item.

item - that replaces one in list.

Returns:

old item.

indexOf

```
public int indexOf(E item)
```

searches for an item and returns the first occurrence in the array, otherwise returns -1, if NOT found.

Specified by:

indexOf in interface List<E>

Parameters:

item - to search for in list.

Returns:

location of item, if found.

isEmpty

```
public boolean isEmpty()
```

returns true, if the list is empty,

Specified by:

isEmpty in interface List<E>

Returns:

boolean value

iterator

```
public Iterator<E> iterator()
```

returns an object used to traverse the elements in list

Specified by:

iterator in interface List<E>

Returns:

iterator for list

contains

public boolean contains(E item)

searches for an item and returns true if in the array,

Specified by:

contains in interface List<E>

Parameters:

item - to search for in list.

Returns:

boolean value.

ensureCapacity

public void ensureCapacity(int capacity)

doubles the capacity of the underlying array, to ensure that it can hold the number of elements specified by the capacity requested.

Parameters:

capacity -

toString

public java.lang.String toString()

displays the contents of the list.

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	Overrides:
	toString in class java.lang.Object
	Returns:
	list