

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		

Class **BSTree<E>**

java.lang.Object
BSTree<E>

public class **BSTree<E>**
extends java.lang.Object

Constructor Summary

Constructors
Constructor and Description
BSTree (java.util.Comparator<E> cmp)

Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description	
void	add (E data)	Adds data to the tree
void	clear ()	clears the tree
boolean	contains (E target)	returns true if there is at least one data matching target in the tree
E	getMax ()	returns the largest data element in this tree.
E	getMin ()	returns the smallest data element in this tree.
boolean	isEmpty ()	return true if the tree is empty
E	remove (E target)	removes the first occurrence of target from this tree and returns the removed value or null if target does not exist in this tree

int	size() returns the number of data items in this tree.
java.lang.String	toString() returns a print-friendly String with entire content of this tree in level-order
java.lang.String	toStringIn() returns a print-friendly String with entire content of this tree in in-order
java.lang.String	toStringPost() returns a print-friendly String with entire content of this tree in post-order
java.lang.String	toStringPre() returns a print-friendly String with entire content of this tree in pre-order

Methods inherited from class java.lang.Object

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

Constructor Detail

BSTree

```
public BSTree(java.util.Comparator<E> cmp)
```

Method Detail

add

```
public void add(E data)
```

Adds data to the tree

Parameters:

data - the data added

contains

```
public boolean contains(E target)
```

returns true if there is at least one data matching target in the tree

Parameters:

target - the target data

Returns:

returns true if there is at least one data matching target in the tree

remove

```
public E remove(E target)
```

removes the first occurrence of target from this tree and returns the removed value or null if target does not exist in this tree

Parameters:

target - the target node

Returns:

returns the removed data

getMax

```
public E getMax()
```

returns the largest data element in this tree.

Returns:

returns the largest data

getMin

```
public E getMin()
```

returns the smallest data element in this tree.

Returns:

returns the smallest data element in this tree

size

```
public int size()
```

returns the number of data items in this tree.

Returns:

returns the size of the tree

isEmpty

```
public boolean isEmpty()

return true if the tree is empty
```

Returns:
true if the tree is empty

clear

```
public void clear()

clears the tree
```

toString

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

returns a print-friendly String with entire content of this tree in level-order
```

Overrides:
toString in class java.lang.Object

toStringIn

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

returns a print-friendly String with entire content of this tree in in-order
```

toStringPre

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

returns a print-friendly String with entire content of this tree in pre-order
```

toStringPost

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

returns a print-friendly String with entire content of this tree in post-order
```

SUMMARY:	NESTED		FIELD		CONSTR		METHOD	DETAIL:	FIELD		CONSTR		METHOD
----------	--------	--	-------	--	--------	--	--------	---------	-------	--	--------	--	--------