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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**> comp)

Method Summary

All Methods Instance Methods Concrete Methods

Modifier and Type Method and Description

void	add (BSTree.Node curr, E item) adds the given item to the tree
void	add (E item) adds the given item to the tree
void	addLoop (E item) adds the item to the tree
boolean	contains (E item) determined if the tree contains the item
boolean	containsLoop (E item) Determines if the tree has the given item

boolean	isEmpty() Determines if the tree is empty
boolean	remove(E item) Removes the given item
void	removeHasBoth (BSTree.Node node) Removes the given node assuming it has exactly two children
void	removeMissing (BSTree.Node node) Remove the missing node in the tree
java.lang.String	toString() Return a string representation of the tree

Methods inherited from class java.lang.Object

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

Constructor Detail

BSTree

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

Method Detail

isEmpty

```
public boolean isEmpty()
```

Determines if the tree is empty

Returns:

if the root is empty

containsLoop

```
public boolean containsLoop(E item)
```

Determines if the tree has the given item

Parameters:

item - to see if the tree has

Returns:

if it is true

addLoop

```
public void addLoop(E item)
```

adds the item to the tree

Parameters:

item - being added

add

```
public void add(E item)
```

adds the given item to the tree

Parameters:

item - being added

add

```
public void add(BSTree.Node curr,  
               E item)
```

adds the given item to the tree

Parameters:

curr - the current position

item - being added

contains

```
public boolean contains(E item)
```

determined if the tree contains the item

Parameters:

item - that it contains

Returns:

if it is true or false

remove

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

Removes the given item

Parameters:

item - being removed

Returns:

if it is true or false

removeMissing

```
public void removeMissing(BSTree.Node node)
```

Remove the missing node in the tree

Parameters:

node - that is being removed

removeHasBoth

```
public void removeHasBoth(BSTree.Node node)
```

Removes the given node assuming it has exactly two children

Parameters:

node - that is being removed

toString

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

Return a string representation of the tree

Overrides:

toString in class java.lang.Object

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