

# Class BTree<E>

java.lang.Object  
BTree<E>

public class BTree<E>  
extends Object

## Constructor Summary

### Constructors

Constructor	Description
<b>BTree</b> (int theOrder, <b>Comparator</b> <E> theComp)	Creates an empty tree from given order and comparator

## Method Summary

All Methods    Instance Methods    Concrete Methods

Modifier and Type	Method	Description
void	<b>add</b> (E item)	Adds the given item into the tree
boolean	<b>contains</b> (E item)	Determines if the tree contains the given item
void	<b>inorder</b> (Visitor<E> visitor)	Performs inorder traversal of the tree
<b>String</b>	<b>toString</b> ()	Returns a string representation of this tree in level-order traversal
<b>String</b>	<b>toStringSorted</b> ()	Returns a string representation of this tree in sorted order

### Methods inherited from class java.lang.Object

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

## Constructor Details

## BTree

```
public BTree(int theOrder,  
             Comparator <E> theComp)
```

Creates an empty tree from given order and comparator

**Parameters:**

theOrder - - given order of the tree

theComp - - given comparator of the tree

## Method Details

### add

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

Adds the given item into the tree

**Parameters:**

item - - item to be added into the tree

### contains

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

Determines if the tree contains the given item

**Parameters:**

item - - the item to be determined if the tree contain

**Returns:**

true if the tree contains the item

### inorder

```
public void inorder(Visitor<E> visitor)
```

Performs inorder traversal of the tree

**Parameters:**

visitor - - given visitor to start traverse inorder through

## toStringSorted

```
public String toStringSorted()
```

Returns a string representation of this tree in sorted order

**Returns:**

a string representation of this tree in sorted order

## toString

```
public String toString()
```

Returns a string representation of this tree in level-order traversal

**Overrides:**

`toString` in class `Object`

**Returns:**

a string representation of this tree in level-order traversal