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## Class BTree<E>

java.lang.Object  
BTree<E>

```
public class BTree<E>
extends java.lang.Object
```

### Constructor Summary

#### Constructors

##### Constructor and Description

**BTree**(java.util.Comparator<E> cmp, int deg)  
Set up and initializes the instance variables

### Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description		
void	<b>add</b> (E newKey) add newKey to the tree		
int	<b>getDegree</b> () returns the degree of this tree		
<b>BTreeNode</b> <E>	<b>getRoot</b> () returns the pointer to the root of this tree		
static void	<b>main</b> (java.lang.String[] args)		
int	<b>size</b> () returns the total number of keys in this tree		
java.lang.String	<b>toString</b> () return the content of the tree as String in level-order		

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

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

## Constructor Detail

### BTree

```
public BTree(java.util.Comparator<E> cmp,  
             int deg)
```

Set up and initializes the instance variables

**Parameters:**

cmp - A Comparator

deg - the degree of the tree and the node

## Method Detail

### add

```
public void add(E newKey)
```

add newKey to the tree

**Parameters:**

newKey -

### toString

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

return the content of the tree as String in level-order

**Overrides:**

toString in class java.lang.Object

**Returns:**

returns a string representation of the tree

### size

```
public int size()
```

returns the total number of keys in this tree

**Returns:**

the total number of keys in this tree

### **getDegree**

```
public int getDegree()
```

returns the degree of this tree

**Returns:**

returns the degree of this tree

### **getRoot**

```
public BTreeNode<E> getRoot()
```

returns the pointer to the root of this tree

**Returns:**

returns the pointer to the root of this tree

### **main**

```
public static void main(java.lang.String[] args)
```

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