

# Class WAVLTree.WAVLNode

java.lang.Object  
WAVLTree.WAVLNode

Enclosing class:  
WAVLTree

public static class WAVLTree.WAVLNode  
extends java.lang.Object  
  
public class WAVLNode

## Constructor Summary

### Constructors

#### Constructor and Description

WAVLNode(int key, java.lang.String value)  
create leaf

## Method Summary

All Methods	Static Methods	Instance Methods	Concrete Methods
Modifier and Type	Method and Description		
int	getKey()		
WAVLTree.WAVLNode	getLeft()		
WAVLTree.WAVLNode	getParent()		
int	getRank()		
static int	getRankDiff(WAVLTree.WAVLNode parent, WAVLTree.WAVLNode child)		
WAVLTree.WAVLNode	getRight()		
int	getSubtreeSize()		
int	getSubTreeSize()		
java.lang.String	getValue()		
boolean	isInnerNode()		

boolean	<b>isLeaf()</b>
WAVLTree.SIDE	<b>isUnary()</b>
void	<b>setLeft(WAVLTree.WAVLNode left)</b>
void	<b>setParent(WAVLTree.WAVLNode parent)</b>
void	<b>setRank(int rank)</b>
void	<b>setRight(WAVLTree.WAVLNode right)</b>
void	<b>setSubTreeSize(int subTreeSize)</b>
void	<b>setValue(java.lang.String value)</b>
java.lang.String	<b>toString()</b>

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

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

## Constructor Detail

### WAVLNode

```
public WAVLNode(int key,  
                java.lang.String value)
```

create leaf

#### Parameters:

key -

value -

## Method Detail

### isUnary

```
public WAVLTree.SIDE isUnary()
```

#### Returns:

is unary node

### isLeaf

```
public boolean isLeaf()
```

**Returns:**

if node is leaf

**getKey**

```
public int getKey()
```

**Returns:**

key, if the node is external node return -1

**getValue**

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

**Returns:**

the info of the nod. if the node is external node return null

**getLeft**

```
public WAVLTree.WAVLNode getLeft()
```

**Returns:**

child left

**getRight**

```
public WAVLTree.WAVLNode getRight()
```

**Returns:**

child right

**getRank**

```
public int getRank()
```

**Returns:**

rank

**setRank**

```
public void setRank(int rank)
```

**Parameters:**

rank -

**getParent**

```
public WAVLTree.WAVLNode getParent()
```

**Returns:**

parent

**setParent**

```
public void setParent(WAVLTree.WAVLNode parent)
```

**Parameters:**

parent -

**getSubTreeSize**

```
public int getSubTreeSize()
```

**Returns:**

Sub Tree Size

**setSubTreeSize**

```
public void setSubTreeSize(int subTreeSize)
```

**Parameters:**

subTreeSize -

**setValue**

```
public void setValue(java.lang.String value)
```

**Parameters:**

value -

**setLeft**

```
public void setLeft(WAVLTree.WAVLNode left)
```

**Parameters:**

left -

**setRight**

```
public void setRight(WAVLTree.WAVLNode right)
```

**Parameters:**

right -

**isInnerNode**

```
public boolean isInnerNode()
```

**Returns:**

true if the node is internal , otherwise false O(1)

**getSubtreeSize**

```
public int getSubtreeSize()
```

**Returns:**

the number of internal mode in the sub-tree O(1)

**toString**

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

**Overrides:**

toString in class java.lang.Object

**getRankDiff**

```
public static int getRankDiff(WAVLTree.WAVLNode parent,  
                              WAVLTree.WAVLNode child)
```

**Parameters:**

parent -

child -

**Returns:**

The rank diff between the node and its child

[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](#)