Package main

Class InternalNode

java.lang.Object main.BaseNode main.InternalNode

public class InternalNode
extends BaseNode

The InternalNode class models an InternalNode of our QuadTree with 4 children

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Constructor Summary

Method Summary

Constructors	
Constructor	Description
<pre>InternalNode()</pre>	Empty constructor of the InternalNode class, which initializes all 4 children to EmptyNode
<pre>InternalNode(BaseNode northE, BaseNode northW, BaseNode southE, BaseNode southW)</pre>	Copy constructor of the InternalNode class, which initializes all 4 children to given BaseNodes
<pre>InternalNode(Range range)</pre>	Constructor of the InternalNode class, set the range of this node

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All Methods	Instance Methods	Concrete Methods	
Modifier and Ty	pe Method	ι	Description
BaseNode	<pre>getNorthE()</pre>		Getter for the north-east child of this node
BaseNode	getNorthW()		Getter for the north-west child of this node
BaseNode	<pre>getSouthE()</pre>		Getter for the south-east child of this node

SUMMARY: NESTED	FIELD	CONSTR	METHOD	DETAIL: FIELD I	CONSTR	METHOD

void	<pre>search(java.lang.String type, Range range, java.util.List<location> locs)</location></pre>	search() searches locations of given type within given range in children node representing four directions NE, NW, SE, SW
void	<pre>setNorthE(BaseNode northE)</pre>	Setter for the north-east child of this node
void	setNorthW(BaseNode northW)	Setter for the north-west child of this node
void	<pre>setSouthE(BaseNode southE)</pre>	Setter for the south-east child of this node
void	setSouthW(BaseNode southW)	Setter for the south-west child of this node

Methods inherited from class main.BaseNode

getRange, mathSplit, setRange

Methods inherited from class java.lang.Object

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

Constructor Detail

InternalNode

public InternalNode()

Empty constructor of the InternalNode class, which initializes all 4 children to EmptyNode

InternalNode

public InternalNode(Range range)

Constructor of the InternalNode class, set the range of this node

Parameters:

range -

InternalNode

FRAMES NO FRAMES

ALL CLASSES

SEARCH: Q Search

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

Copy constructor of the InternalNode class, which initializes all 4 children to given BaseNodes

Method Detail

search

```
public void search(java.lang.String type,
                   Range range,
                   java.util.List<Location> locs)
```

search() searches locations of given type within given range in children node representing four directions NE, NW, SE, SW

Specified by:

search in class BaseNode

Parameters:

type - the type of Location we want to search

range - the search Range

locs - a list of Locations containing the search results (mofify in-place)

isEmpty

```
public boolean isEmpty()
```

isEmpty() checks if all 4 children of this InternalNode are EmptyNodes

Specified by:

isEmpty in class BaseNode

Returns:

true if all 4 children of this InternalNode are EmptyNodes and false otherwise

getNorthE

public BaseNode getNorthE()

Getter for the north-east child of this node

Returns:

the north-east child of this node

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ALL CLASSES

SEARCH: Q Search

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SUMMARY: NESTED | FIELD | CONSTR | METHOD DETAIL: FIELD | CONSTR | METHOD

public void setNorthE(BaseNode northE)

Setter for the north-east child of this node

Parameters:

northE - the new north-east child of this class

getNorthW

public BaseNode getNorthW()

Getter for the north-west child of this node

Returns:

the north-west child of this node

setNorthW

public void setNorthW(BaseNode northW)

Setter for the north-west child of this node

Parameters:

northW - the new north-west node of this node

getSouthE

public BaseNode getSouthE()

Getter for the south-east child of this node

Returns:

the south-east child of this node

setSouthE

public void setSouthE(BaseNode southE)

Setter for the south-east child of this node

Parameters:



