PACKAGE

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FRAMES NO FRAMES

ALL CLASSES

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

Class BST12Tester

java.lang.Object BST12Tester

public class BST12Tester extends java.lang.Object

This class is a JUnit tester for the BST12 and BST12Adapt classes. This class extends junit.framework.TestCase

Constructor Summary

Constructors

Constructor and Description

BST12Tester()

Method Summary

All Methods	Instance Methods Concrete Methods
Modifier and Type	Method and Description
void	setUp() Standard Test Fixture.
void	testAdaptIteHasNext() The tester tests if BST12Adapt iterator functions properly using Adapter Design Pattern.
void	testAdaptIteRemove() The tester tests if BST12Adapt throws proper exception while using remove(), since it's undefined.
void	testAddAll() This tester tests if addAll by adding a collection works.
void	testAddDuplicates() Supplied tester.
void	testAddUnique() Supplied Tester.

void	testDepth() Supplied tester.
void	testEmptyTree() supplied tester
void	testMyAddDuplicates() Modified by supplied tester, to test duplicates on add() on BST12 object.
void	testMyAddUnique() This tester is modified by the supplied tester.
void	testMyDepth() Modified by supplied tester, test BST12 object height.
void	testMyDynamicHeight() This tester dynamically tests the height of a BST12 object called mytree, after every add and remove, to see if the height meets my speculation based on how the tree works.
void	testMyEmptyTree() this tester tests clear method for BST12
void	testMyIteRemove() The tester tests if BST12 throws proper exception while using remove()
void	testMyOtherType() Modified by supplied tester.
void	testMyRandomAddAndRemove() Modified by supplied tester to test on BST12 object.
void	testMyRemoveExistingLeaf() Modified by supplied tester, to test basic remove function on specific element on BST12 object.
void	testMyRemoveExistingMiddleItemWithEmptyLeftChild() Modified by supplied tester, to test remove method on an internal node with empty left child on BST12 object.
void	testMyRemoveExistingMiddleItemWithEmptyRightChild() Modified by supplied tester, to test remove an internal node with empty right child on BST12 object.
void	testMyRemoveExistingMiddleItemWithTwoChildren() Modified by supplied tester, to test remove method on an internal node with both children on BST12 object.
void	testMyRemoveRoot() Modified by supplied tester, to test if removing roots of a BST12 object works properly.
void	testMySize()

	Modified by supplied tester to test BST12 size.
void	testOtherType() Supplied tester.
void	testRandomAddAndRemove() Supplied tester.
void	testRemoveExistingLeaf() Supplied tester.
void	<pre>testRemoveExistingMiddleItemWithEmptyLeftChild() Supplied tester.</pre>
void	testRemoveExistingMiddleItemWithEmptyRightChild() Supplied tester.
void	testRemoveExistingMiddleItemWithTwoChildren() Supplied tester.
void	testRemoveRoot() Supplied tester.
void	testSeventeenChildrenNumber() This tester verifies the BST12 tree called seventeen has correct numbers of children for each nodes as I speculated.
void	testSeventeenContains() Test basic contains() method on seventeen.
void	testSeventeenDepth() Test height on BST12 object called seventeen.
void	testSeventeenSize() Test size on BST12 object called seventeen.
void	testSize() Supplied tester.
void	testToString() Supplied tester.

Methods inherited from class java.lang.Object

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

Constructor Detail

BST12Tester

```
public BST12Tester()
```

Method Detail

testEmptyTree

```
public void testEmptyTree()
supplied tester
```

testMyEmptyTree

```
public void testMyEmptyTree()
this tester tests clear method for BST12
```

setUp

Standard Test Fixture. Use either BST12Adapt or BST12 as a test fixture, depending on the need.

Throws:

java.lang.Exception

testAdaptIteRemove

```
public void testAdaptIteRemove()
```

The tester tests if BST12Adapt throws proper exception while using remove(), since it's undefined.

testMyIteRemove

```
public void testMyIteRemove()
```

The tester tests if BST12 throws proper exception while using remove()

testAdaptIteHasNext

```
public void testAdaptIteHasNext()
```

The tester tests if BST12Adapt iterator functions properly using Adapter Design Pattern.

testAddUnique

```
public void testAddUnique()
```

Supplied Tester.

testMyAddUnique

```
public void testMyAddUnique()
```

This tester is modified by the supplied tester. Tests on BST12.

testAddAll

```
public void testAddAll()
```

This tester tests if addAll by adding a collection works. The collection contains same things as mytree (in the setup) does.

testSeventeenChildrenNumber

```
public void testSeventeenChildrenNumber()
```

This tester verifies the BST12 tree called seventeen has correct numbers of children for each nodes as I speculated. and verifies proper exceptions are caught.

testSize

```
public void testSize()
```

Supplied tester.

testMySize

```
public void testMySize()
```

Modified by supplied tester to test BST12 size.

testDepth

```
public void testDepth()
```

Supplied tester. Modified to fit the requirement.

testMyDepth

```
public void testMyDepth()
```

Modified by supplied tester, test BST12 object height.

testSeventeenSize

public void testSeventeenSize()

Test size on BST12 object called seventeen.

testSeventeenDepth

public void testSeventeenDepth()

Test height on BST12 object called seventeen.

testSeventeenContains

public void testSeventeenContains()

Test basic contains() method on seventeen.

testMyDynamicHeight

public void testMyDynamicHeight()

This tester dynamically tests the height of a BST12 object called mytree, after every add and remove, to see if the height meets my speculation based on how the tree works.

testToString

public void testToString()

Supplied tester.

testAddDuplicates

public void testAddDuplicates()

Supplied tester.

testMyAddDuplicates

public void testMyAddDuplicates()

Modified by supplied tester, to test duplicates on add() on BST12 object.

testRemoveExistingLeaf

public void testRemoveExistingLeaf()

Supplied tester.

testMyRemoveExistingLeaf

public void testMyRemoveExistingLeaf()

Modified by supplied tester, to test basic remove function on specific element on BST12 object.

test Remove Existing Middle I tem With Empty Right Child

public void testRemoveExistingMiddleItemWithEmptyRightChild()

Supplied tester.

testMyRemoveExistingMiddleItemWithEmptyRightChild

public void testMyRemoveExistingMiddleItemWithEmptyRightChild()

Modified by supplied tester, to test remove an internal node with empty right child on BST12 object.

testRemoveExistingMiddleItemWithEmptyLeftChild

public void testRemoveExistingMiddleItemWithEmptyLeftChild()

Supplied tester.

testMyRemoveExistingMiddleItemWithEmptyLeftChild

public void testMyRemoveExistingMiddleItemWithEmptyLeftChild()

Modified by supplied tester, to test remove method on an internal node with empty left child on BST12 object.

testRemoveExistingMiddleItemWithTwoChildren

public void testRemoveExistingMiddleItemWithTwoChildren()

Supplied tester.

test My Remove Existing Middle I tem With Two Children

public void testMyRemoveExistingMiddleItemWithTwoChildren()

Modified by supplied tester, to test remove method on an internal node with both children on BST12 object.

testRemoveRoot

public void testRemoveRoot()

Supplied tester.

testMyRemoveRoot

public void testMyRemoveRoot()

Modified by supplied tester, to test if removing roots of a BST12 object works properly.

testRandomAddAndRemove

public void testRandomAddAndRemove()

Supplied tester.

testMyRandomAddAndRemove

public void testMyRandomAddAndRemove()

Modified by supplied tester to test on BST12 object.

testOtherType

public void testOtherType()

Supplied tester. See if adding other types work.

testMyOtherType

public void testMyOtherType()

Modified by supplied tester. Adding string on BST12 object and see if it works.

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PREV CLASS NEXT CLASS FRAMES NO FRAMES ALL CLASSES

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