

## **Tree class**

### *Test Plan for*

1. Create an **Tree** object with the default constructor.
2. Create **Tree** objects with all non-default constructors.
  - (a) with valid field values
  - (b) with invalid field values
3. Test all the **get** methods.
  - (a) Test the getType method
  - (b) Test the getUsage method
4. Test all the **set** methods.
  - (a) Test the setType method
    1. with valid arguments
    2. with invalid arguments
  - (b) Test the setUsage method
    1. with valid arguments
    2. with invalid arguments

### *The Actual Tests*

1. Create an **Tree** object with the default constructor.

#### **Test Data:**

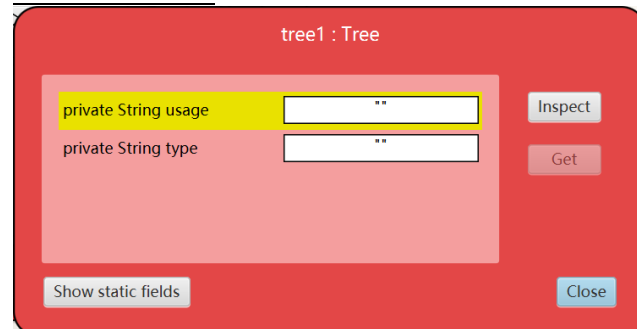
No input

#### **Expected Results:**

usage: "";

type: "";

#### **Actual Results:**



2. Create **Tree** objects with all non-default constructors.

- (a) with valid field values

#### **Test Data:**

usage: "food"

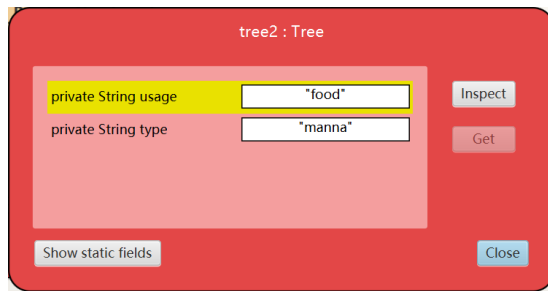
type: "manna"

#### **Expected Results:**

usage: "food"

type: "manna"

#### **Actual Results:**



(b)with invalid field values

**Test Data:**

usage: "eating"

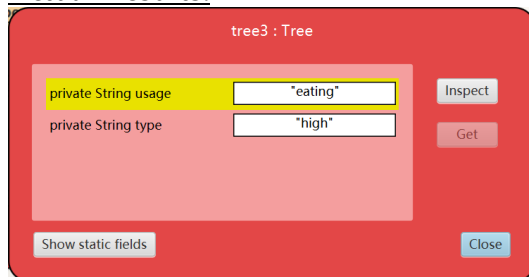
type: "high"

**Expected Results:**

usage: "";

type: "";

**Actual Results:**



**3. Test all the get methods.**

(a) Test the getType method

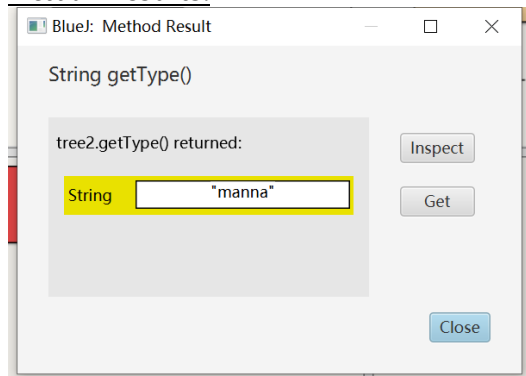
**Test Data:**

No input

**Expected Results:**

type: "manna"

**Actual Results:**



(b) Test the getUsage method

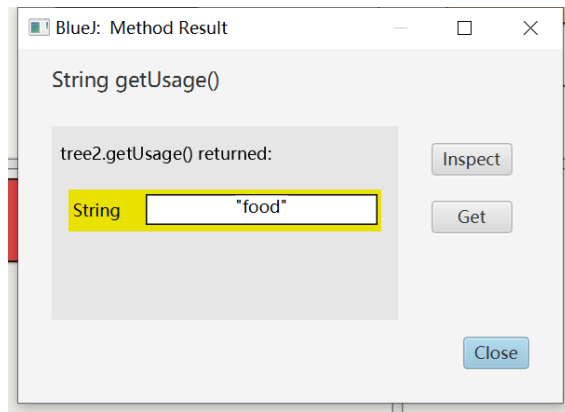
**Test Data:**

No input

**Expected Results:**

usage: "food"

**Actual Results:**



#### 4. Test all the **set** methods.

(a) Test the setType method with valid arguments

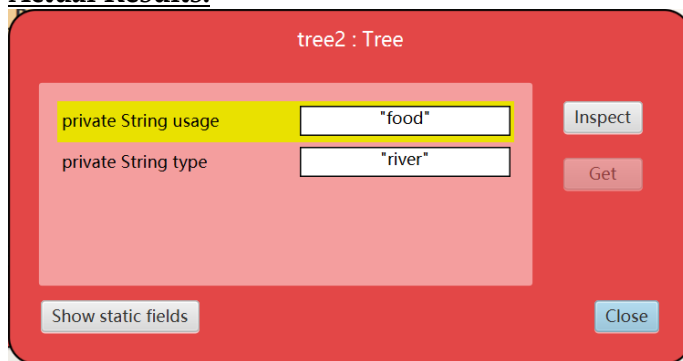
##### Test Data:

type: "river"

##### Expected Results:

type: "river"

##### Actual Results:



with invalid arguments

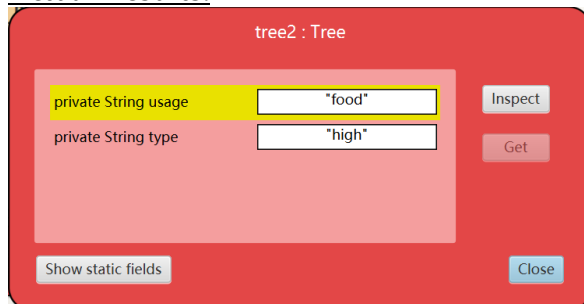
##### Test Data:

type: "high"

##### Expected Results:

type: ""

##### Actual Results:



(b) Test the setUsage method with valid arguments

##### Test Data:

usage: "food"

**Expected Results:**

usage: "food"

**Actual Results:**

tree1 : Tree

private String usage

"food"

private String type

" "

Inspect

Get

Show static fields

Close

with invalid arguments

**Test Data:**

usage: "eating"

**Expected Results:**

usage: ""

**Actual Results:**

tree1 : Tree

private String usage

"eating"

private String type

" "

Inspect

Get

Show static fields

Close