|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Plant.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | |  |
| [**PREV CLASS**](http://docs.google.com/fishPond/Model.html)   [**NEXT CLASS**](http://docs.google.com/fishPond/PublicTests.html) | [**FRAMES**](http://docs.google.com/index.html?fishPond/Plant.html)    [**NO FRAMES**](http://docs.google.com/Plant.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#3rdcrjn) | [METHOD](#35nkun2) |

## **fishPond**

Class Plant

java.lang.Object  
  
 **fishPond.Plant**

public class **Plant**extends java.lang.Object

The state of a plant includes it's position (row and column) and it's size.

A Plant grows over time. Plants are eaten by fish that pass over them.

**Author:** Put Your Name Here

|  |  |
| --- | --- |
| **Field Summary** | |
| static int | [**MAX\_PLANT\_SIZE**](http://docs.google.com/fishPond/Plant.html#MAX_PLANT_SIZE)            Maximum size for a plant |
| static int | [**PLANT\_BITE\_SIZE**](http://docs.google.com/fishPond/Plant.html#PLANT_BITE_SIZE)            Portion of plant that is eaten by a fish passing over it |
| static int | [**PLANT\_STARTING\_SIZE**](http://docs.google.com/fishPond/Plant.html#PLANT_STARTING_SIZE)            Initial size of plants in beginning of simulation |

|  |  |
| --- | --- |
| **Constructor Summary** | |
| [**Plant**](http://docs.google.com/fishPond/Plant.html#Plant(int,%20int,%20int))(int rowIn, int colIn, int size)            Standard constructor that merely initializes the fields from the parameters |
| [**Plant**](http://docs.google.com/fishPond/Plant.html#Plant(fishPond.Plant))([Plant](http://docs.google.com/fishPond/Plant.html) other)            Standard copy constructor that merely copies the fields |

|  |  |
| --- | --- |
| **Method Summary** | |
| int | [**getCol**](http://docs.google.com/fishPond/Plant.html#getCol())()            returns column |
| int | [**getRow**](http://docs.google.com/fishPond/Plant.html#getRow())()            returns row |
| int | [**getSize**](http://docs.google.com/fishPond/Plant.html#getSize())()            returns size |
| void | [**grow**](http://docs.google.com/fishPond/Plant.html#grow())()            increments size by one unit |
| boolean | [**isAlive**](http://docs.google.com/fishPond/Plant.html#isAlive())()            returns true if size is bigger than zero, false otherwise. |
| void | [**removeBite**](http://docs.google.com/fishPond/Plant.html#removeBite(int))(int biteSize)            decreases size by biteSize units |

|  |
| --- |
| **Methods inherited from class java.lang.Object** |
| equals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait |

|  |
| --- |
| **Field Detail** |

### PLANT\_STARTING\_SIZE

public static final int **PLANT\_STARTING\_SIZE**

Initial size of plants in beginning of simulation

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#fishPond.Plant.PLANT_STARTING_SIZE)

### MAX\_PLANT\_SIZE

public static final int **MAX\_PLANT\_SIZE**

Maximum size for a plant

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#fishPond.Plant.MAX_PLANT_SIZE)

### PLANT\_BITE\_SIZE

public static final int **PLANT\_BITE\_SIZE**

Portion of plant that is eaten by a fish passing over it

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#fishPond.Plant.PLANT_BITE_SIZE)

|  |
| --- |
| **Constructor Detail** |

### Plant

public **Plant**(int rowIn,  
  
 int colIn,  
  
 int size)

Standard constructor that merely initializes the fields from the parameters

### Plant

public **Plant**([Plant](http://docs.google.com/fishPond/Plant.html) other)

Standard copy constructor that merely copies the fields

|  |
| --- |
| **Method Detail** |

### isAlive

public boolean **isAlive**()

returns true if size is bigger than zero, false otherwise.

### getRow

public int **getRow**()

returns row

### getCol

public int **getCol**()

returns column

### getSize

public int **getSize**()

returns size

### grow

public void **grow**()

increments size by one unit

### removeBite

public void **removeBite**(int biteSize)

decreases size by biteSize units

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/Plant.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | |  |
| [**PREV CLASS**](http://docs.google.com/fishPond/Model.html)   [**NEXT CLASS**](http://docs.google.com/fishPond/PublicTests.html) | [**FRAMES**](http://docs.google.com/index.html?fishPond/Plant.html)    [**NO FRAMES**](http://docs.google.com/Plant.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#3rdcrjn) | [METHOD](#35nkun2) |

[Web Accessibility](https://www.umd.edu/web-accessibility)