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## **Class Serpentine**

java.lang.Object greenfoot.Actor Troop Serpentine

public class Serpentine
extends Troop

# **Serpentine Class**

Subclass of Troop superclass, shoots cannonballs at Establishment targets. Moves at a speed of 1, shoots hard-hitting cannonballs, but takes a while to reload. Only targets establishments, but can hit troops that are in its way. A cannonball sound effect is also played every shot. When the serpentine's health reaches o or below an explosion sound effect will be played, along with a disappearing skull.

Version:

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Author:

Ryo Minakami, Andrew Qiao

### Field Summary

### Fields inherited from class Troop

actCount, alliance, chateau, closestEstablishment, closestTroop, establishments, healthBar, hp, level, maxHP, reloadCounter, reloadTime, speed, targetEstablishment, targetTroop, troops

## **Constructor Summary**

#### **Constructors**

Constructor Description

Serpentine(int alliance,
int level, Chateau chateau)

Constructor for Serpentine class, calls superclass constructor and sets properties for the Serpentine.

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Modifier and Type	Method	Description
void	act()	Called every act, determines the closest establishment and moves, reloads, or shoots accordingly.
void	<pre>death   (boolean isCastleDestroyed)</pre>	Called when a troop's HP is o or below.
protected void	<pre>shoot(greenfoot.Actor a)</pre>	Called to shoot a cannonball.

## **Methods inherited from class Troop**

findEstablishment, findTroop, getAlliance, getDistance, hit, setAlliance

## Methods inherited from class greenfoot.Actor

addedToWorld, getImage, getIntersectingObjects, getNeighbours, getObjectsAtOffset, getObjectsInRange, getOneIntersectingObject, getOneObjectAtOffset, getRotation, getWorld, getWorldOfType, getX, getY, intersects, isAtEdge, isTouching, move, removeTouching, setImage, setImage, setLocation, setRotation, turn, turnTowards

## Methods inherited from class java.lang.Object

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

### **Constructor Detail**

### Serpentine

Constructor for Serpentine class, calls superclass constructor and sets properties for the Serpentine.

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act

public void act()

Called every act, determines the closest establishment and moves, reloads, or shoots accordingly.

Overrides:

act in class greenfoot. Actor

### shoot

protected void shoot(greenfoot.Actor a)

Called to shoot a cannonball.

#### Parameters:

a - Target to shoot cannonball at.

### death

public void death(boolean isCastleDestroyed)

Called when a troop's HP is o or below.

Overrides:

death in class Troop

Parameters:

isCastleDestroyed - If the castle has been destroyed

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