

As of the completion of this assignment, I found the most difficult part of the assignment to be properly installing a plugin to use for analysis of the cyclomatic complexity of my code. I was unable to do this in the time provided, so I opted to use an online cyclomatic complexity analyzer called Lizard. This can be found at the following link: <http://www.lizard.ws/>. Other than this, the assignment was completed without issue, and there are no missing parts.

The following are some important statistics about my code:

**Ant.java:**

Lines of code: 11

Cyclomatic Complexity of constructor: 1

Cyclomatic Complexity of move(): 1

**Bat.java:**

Lines of code: 29

Cyclomatic Complexity of constructor: 1

Cyclomatic Complexity of eat(): 3

Cyclomatic Complexity of fly(): 1

Cyclomatic Complexity of move(): 1

**Creature.java:**

Lines of code: 25

Cyclomatic Complexity of constructor: 1

Cyclomatic Complexity of eat(): 1

Cyclomatic Complexity of whatDidYouEat(): 2

**Fly.java:**

Lines of code: 26

Cyclomatic Complexity of constructor: 1

Cyclomatic Complexity of eat(): 2

Cyclomatic Complexity of fly(): 1

Cyclomatic Complexity of move(): 1

**Flyer.java:**

Lines of code: 4

**TestCreature.java:**

Lines of code: 40

Cyclomatic Complexity of main(): 3

**Thing.java:**

Lines of code: 20

Cyclomatic Complexity of constructor: 1

Cyclomatic Complexity of toString(): 2

**Tiger.java:**

Lines of code: 11

Cyclomatic Complexity of constructor: 1

Cyclomatic Complexity of move(): 1

#### **AntTest.java:**

Lines of code: 9

Cyclomatic Complexity of testName(): 1

#### **BatTest.java:**

Lines of code: 9

Cyclomatic Complexity of testName(): 1

#### **FlyTest.java:**

Lines of code: 9

Cyclomatic Complexity of testName(): 1

#### **ThingTest.java:**

Lines of code: 9

Cyclomatic Complexity of testName(): 1

#### **TigerTest.java:**

Lines of code: 9

Cyclomatic Complexity of testName(): 1

### Unit Test Coverage using EclEmma Java Code Coverage 3.1.2 Eclipse Plugin:

eclipse-workspace - Eclipse IDE					
File Edit Navigate Search Project Run CodeMR Window Help					
JUnit Coverage					
Element	Coverage	Covered Instructi	Missed Instructio	Total Instructions	
CS445-HW1	25.5 %	114	333	447	
src	25.5 %	114	333	447	
(default package)	25.5 %	114	333	447	
TestCreature.java	0.0 %	0	171	171	
Creature.java	7.1 %	4	52	56	
Bat.java	8.0 %	4	46	50	
Fly.java	9.1 %	4	40	44	
Ant.java	25.0 %	4	12	16	
Tiger.java	25.0 %	4	12	16	
AntTest.java	100.0 %	13	0	13	
BatTest.java	100.0 %	13	0	13	
FlyTest.java	100.0 %	13	0	13	
Thing.java	100.0 %	29	0	29	
ThingTest.java	100.0 %	13	0	13	
TigerTest.java	100.0 %	13	0	13	