Name	Period
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Skill 24.2: Exercise 1 The MyCar class below extends the Car class. For each line of code indicated with a letter (A - E), indicate whether the statement is valid or invalid. If it is invalid, indicate why. public class MyCar extends Car{ public abstract class Car{ public static void main(String args[]){ private int year = 2015; (D) private String model = "Landcruiser"; Car newCar = new Car(); (A) } public abstract String getMake(); (E) (B) public String getMake(){ return "Toyota"; public abstract int getYear(){ return year; } } } (C) public String model(){ return model; } (A) (B) (C)

(E)		
Skill 24.2: Exercise 2		
(a) Declare an abstract class Insect. Then declare another class called Bee which inherits Insect.		
(b) Declare a method in the Insect class called getLegs(), which returns the number of legs as an int.		
(c) Declare a Boolean abstract method in the Insect class called canFly()(d) In the Bee class, implement the canFly method		
(e) Write the main class and in the main class instantiated a Bee object, then call getLegs() and canFly()		

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Skill 24.4: Exercise 1	
(a) Declare an interface called Animal	
(b) Declare a class called Ant that implements Animal	

Skill 24.4: Exercise 2

Consider the animal interface below. The Unicorn and Dinosaur classes implement the Animal interface. Write the Unicorn and Dinosaur classes.

```
public interface Animal {

//All the methods below are abstract
  void setAge(int a);
  void setType(String t);
  boolean getEats();
  String getAnimalInfo();
}
```

Write a new class called Brontosaurus that extends the Dinosaur class.

- Brontosauruses are vegetarians so you need to override the getEats method to return false.
- Write the getAnimalInfo method that overrides the getAnimalInfo in the Dinosaur class

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Complete the Zoo class below. In the Zoo class,	
- Create a Rainbow Unicorn that is 400 years old.	
- Create a Brontosaurus Dinosaur that is 80 years old.	
- Print the getEats method for both the animals. What is pri	inted?
- Print the getAnimalInfo method for both animals. What is	