

Name _____ Period _____

Skill 26.1: 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.	
<pre> public abstract class Car{ private int year = 2015; private String model = "Landcruiser"; public abstract String getMake(); (A) public abstract int getYear(){ return year; (B) } public String model(){ return model; (C) } } </pre>	<pre> public class MyCar extends Car{ public static void main(String args[]){ Car newCar = Car(); (D) public String getMake(){ return "Toyota"; (E) } } } </pre>
<p>(A)</p> <p>(B)</p> <p>(C)</p> <p>(D)</p> <p>(E)</p>	

Skill 26.2: Exercise 1	
<p>(a) Declare an abstract class Insect. Then declare another class called Bee which inherits Insect, then write a main method.</p> <p>(b) Declare a method in the Insect class called getLegs(), which returns the number of legs as an int.</p> <p>(c) Declare a Boolean abstract method in the Insect class called canFly()</p> <p>(d) In the Bee class, call the getLegs method</p> <p>(e) In the Bee class, implement and call the canFly method</p>	

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Skill 26.3: Exercise 1	
(a) Declare an interface called <code>Animal</code>	
(b) Declare a class called <code>Ant</code> that implements <code>Animal</code>	

Skill 26.4: Exercise 1	
Consider the vehicle interface below. The <code>Car</code> and <code>Bike</code> classes implement the <code>Vehicle</code> interface. Write the <code>Car</code> and <code>Vehicle</code> classes.	
<pre>Public interface Vehicle { // all are the abstract methods. void changeGear(int a); void speedUp(int a); void applyBrakes(int a); }</pre>	