

Name _____ Period _____

Skill 25.2: 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.	
<pre> public abstract class Car{ private int year = 2015; private String model = "Landcruiser"; (A) public abstract String getMake(); (B) public abstract int getYear(){ return year; } (C) public String model(){ return model; } } </pre>	<pre> public class MyCar extends Car{ public static void main(String args[]){ (D) Car newCar = new Car(); } (E) public String getMake(){ return "Toyota"; } } } </pre>
(A) (B) (C) (D) (E)	

Skill 25.2: 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()	
<div></div>	
<div></div>	

Name _____ Period _____

Skill 25.4: Exercise 1	
(a) Declare an interface called <code>Animal</code>	
(b) Declare a class called <code>Ant</code> that implements <code>Animal</code>	

Skill 25.4: Exercise 2	
Consider the animal interface below. The Unicorn and Dinosaur classes implement the <code>Animal</code> interface. Write the Unicorn and Dinosaur classes.	
<pre>public interface Animal { //All the methods below are abstract void setAge(int a); void setType(String t); boolean getEats(boolean e); }</pre>	

AP Computer Science A
Ticket Out the Door
Set 25: Abstract Classes and Interfaces

Name _____ Period _____
