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| **Skill 25.1: 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. | |
| 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)  }  } | public class MyCar extends Car{  public static void main(String args[]){  Car newCar = Car(); (D)  }  public String getMake(){  return “Toyota”; (E)  }  } |
| (A)  (B)  (C)  (D)  (E) | |

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| **Skill 25.2: Exercise 1** | |
| 1. Declare an abstract class Insect. Then declare another class called Bee which inherits Insect, then write a main method. 2. Declare a method in the Insect class called getLegs(), which returns the number of legs as an int. 3. Declare a Boolean abstract method in the Insect class called canFly() 4. In the Bee class, call the getLegs method 5. In the Bee class, implement and call the canFly method | |
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| **Skill 25.3: Exercise 1** | |
| 1. Declare an interface called Animal 2. Declare a class called Ant that implements Animal | |
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| **Skill 25.4: Exercise 1** | |
| Consider the vehicle interface below. The Car and Bike classes implement the Vehicle interface. Write the Car and Vehicle classes. | |
| Public interface Vehicle {  // all are the abstract methods.  void changeGear(int a);  void speedUp(int a);  void applyBrakes(int a);  } | |
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