

BJP5 Exercise 9.4: MonsterTruck

Language/Type: Java classes implementing inheritance instance methods
Related Links: Car, Car, Car
Author: Marty Stepp (on 2019/09/19)

Suppose that the following two classes have been declared:

```
public class Car {
    public void m1() {
        System.out.println("car 1");
    }

    public void m2() {
        System.out.println("car 2");
    }

    public String toString() {
        return "vroom";
    }
}

public class Truck extends Car {
    public void m1() {
        System.out.println("truck 1");
    }

    public void m2() {
        super.m1();
    }

    public String toString() {
        return super.toString() + super.toString();
    }
}
```

Write a class MonsterTruck whose methods have the behavior below. Don't just print/return the output inheritance to reuse behavior from the superclass.

Method	Output/Return
m1	monster 1
m2	truck 1 car 1
toString	"monster vroomvroom"

Type your solution here:

```
1 public class MonsterTruck extends Truck {
2     public void m1(){
3         System.out.println("monster 1");
4     }
5     public void m2(){
6         super.m1();
7         super.m2();
8     }
9     public String toString(){
10         return ("monster " + super.toString());
11     }
12 }
13 }
```

This is an inheritance problem. Write a Java class using inheritance. (You do not need to write any import statements.)

Submit

You passed 3 of 3 tests.

BJP5 Self-Check 9.8: CarTruck

Language/Type: Java classes inheritance mystery
Author: Marty Stepp (on 2019/09/19)

Consider the following two classes:

```
public class Car {
    public void m1() {
        System.out.println("car 1");
    }

    public void m2() {
        System.out.println("car 2");
    }

    public String toString() {
        return "vroom";
    }
}

public class Truck extends Car {
    public void m1() {
        System.out.println("truck 1");
    }
}
```

And assuming that the following variables have been declared:

```
Car mycar = new Car();
Truck mytruck = new Truck();
```

What is the output from the following statements?

System.out.println(mycar);
mycar.m1();
mycar.m2();
System.out.println(mytruck);
mytruck.m1();
mytruck.m2();

vroom

car 1

car 2

vroom

truck 1

car 2

Submit

You passed 6 of 6 tests.

BJP5 Self-Check 9.9: CarTruck2

Language/Type: [Java](#) [classes](#) [inheritance](#) [mystery](#)
Author: Marty Stepp (on 2019/09/19)

Consider the following two classes:

```
public class Car {
    public void m1() {
        System.out.println("car 1");
    }

    public void m2() {
        System.out.println("car 2");
    }

    public String toString() {
        return "vroom";
    }
}

public class Truck extends Car {
    public void m1() {
        System.out.println("truck 1");
    }

    public void m2() {
        super.m1();
    }


    public String toString() {
        return super.toString() + super.toString();
    }
}
```


And assuming that the following variable has been declared:

```
Truck mytruck = new Truck();
```

What is the output from the following statements?

System.out.println(mytruck);	vroomvroom
mytruck.m1();	truck 1
mytruck.m2();	car 1

 Submit

 You passed 3 of 3 tests.

BJP5 Self-Check 9.10: inheritanceVariableSyntax

Language/Type: [Java](#) [classes](#) [inheritance](#) [syntax](#) [variables](#)
Author: Marty Stepp (on 2019/09/19)


Consider the following classes:

```
public class Vehicle {...}
public class Car extends Vehicle {...}
public class SUV extends Car {...}
```


Which of the following are legal statements?

- a. ☒ Vehicle v = new SUV();
 - b. ☒ SUV s = new SUV();
 - c. ☒ Car c = new SUV();
 - d. ☐ SUV s = new Car();
 - e. ☐ Car c = new Vehicle();
 - f. ☒ Vehicle v = new Car();
- (order shuffled)

 Submit

 You passed 1 of 1 tests.

[Go to the next problem: CarTruck](#)

question #1: Which of the following are legal statements?
your answer: Vehicle v = new SUV();
SUV s = new SUV();
Car c = new SUV();
Vehicle v = new Car();
result:  pass