Car Class

```
import java.io.*;
import java.util.* ;
import java.util.*;
class Car {
   int noOfGear;
    String color;
   public Car(int noOfGear, String color) {
    this.noOfGear = noOfGear;
    this.color = color;
class RaceCar extends Car {
    int maxSpeed;
   public RaceCar(int noOfGear, String color, int maxSpeed)
        this.maxSpeed = maxSpeed;
   public void printInfo()
        System.out.println("noOfGear: " + noOfGear);
        System.out.println("color: " + color);
        System.out.println("maxSpeed: " + maxSpeed);
class Solution {
   public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
```

```
int noOfGear = sc.nextInt();

// [IGNORE]: Extra "end line" in previous line.
sc.nextLine();

String color = sc.nextLine();
int maxSpeed = sc.nextInt();
RaceCar raceCar = new RaceCar(noOfGear, color, maxSpeed);
raceCar.printInfo();
}
```

Multilevel Inheritance

```
import java.util.* ;
import java.io.*;
class GrandFather{
class Father extends GrandFather{
class Son extends Father{
```

```
public void printName(String grandFatherName, String fatherName,
String sonName)
{
    //super(grandFatherName, fatherName);
    System.out.println("sonname: " + sonName);
    System.out.println("fathername: " + fatherName);
    System.out.println("grandfather: " + grandFatherName);
}

class Solution {
    public static void main(String args[]) {
        // Write your code here
        //GrandFather obj1 = new GrandFather();
        //Father obj2 = new Father();
        Son obj3 = new Son();
        obj3.printName("Suresh", "Ramesh", "Saurabh");
    }
}
```

How many types of inheritance in java? Options: 2 1 3 5 Correct Answer

```
class Base {
    public void show() {
        System.out.println("Base class show() method called");
    }
}
class Derived extends Base {
    public void show() {
        System.out.println("Derived class show() method called");
    }
}

public class Main {
    public static void main(String[] args) {
        Base b = new Derived();;
        b.show();
    }
}
```

Options:

- Base class show() method called
- Derived class show() method called
- Both of the above
- None of the above
- Correct Answer

What is the output of the following code? class Base { final public void show() { System.out.println("Base class show() method called"); } } class Derived extends Base { public void show() { System.out.println("Derived class show() method called"); } } public class Main { public static void main(String[] args) { Base b = new Derived();; b.show(); } }

Options:

- Base class show() method called
- Derived class show() method called
- Compile time error
- Runtime error
- Correct Answer

```
What is the output of the following code?
class Base {
    public void show() {
        System.out.println("Base");
class Derived extends Base {
    private void show() {
        System.out.println("Derived");
public class Main {
    public static void main(String[] args) {
        Base b = new Derived();;
        b.show();
    }
Options:
      Derived
      Compile time error
      Runtime error
```

Correct Answer