```
public class Dog{
   private String color = "Black";
    private String action = "";
    //your code here
public class Midterm{
    public static void main(String[] args){
        Dog scooby = new Dog();
        scooby.setAction("Barking");
        scooby.printDog();
        Dog odie = new Dog ("Red");
        odie.setAction("Sitting");
        odie.printDog();
        Dog goofy = new Dog("Blue");
        goofy.setAction("Eating");
        goofy.printDog();
        scooby.setColor("Brown");
        scooby.printDog();
    }
```

Complete the **<u>Dog</u>** class so the **<u>main</u>** method above produces the following output:

```
Black dog is Barking.
Red dog is Sitting.
Blue dog is Eating.
Brown dog is Barking.
```

```
Test5 t1 = new Test5();
t1.methodA();
t1.methodA();
Test5 t2 = new Test5(2,3);
t2.methodA();
t2.methodA();
```

```
public class Test5{
 private int sum;
 private int y;
 private int x;
 public Test5(){
   sum = 1;
  y = 1;
 public Test5(int x, int p){
   sum = x;
  y = p;
 public void methodA() {
    int x=0;
   int[] msg = new int[1];
   msq[0] = 5;
   y = y + methodB(msg, msg[0]) + y;
   x = y + methodB(methodB(msg, msg[0]), msg[0]) + sum;
    sum = x + y + msg[0];
   System.out.println(this.x + " " + y+ " " + sum);
 private int methodB(int[] mg2, int y) {
    int x = 0;
    this.y = y - mg2[0];
    this.x = x - 33 + y;
   x = y + this.y;
    sum = sum - x + y;
   mq2[0] = y - sum;
    System.out.println(x + " " + y + " " + sum);
   return mg2[0];
  private int methodB(int sum, int mg1) {
    int x = 0;
   y = y - this.sum;
   x = x + 33 + mg1;
   sum = sum + x + y;
   mg1 = y - mg1;
    System.out.println(x + " " + y + " " + sum);
   return mg1;
  }
```

```
public class Cat{
public String color = "White";
public String action = "sitting";
//your code here
public class Test{
public static void main(String [] args) {
Cat c1 = new Cat();
Cat c2 = new Cat("Black");
Cat c3 = new Cat("Brown", "jumping");
Cat c4 = new Cat("Red", "purring");
c1.printCat();
c2.printCat();
c3.printCat();
c4.printCat();
c1.changeColor("Blue");
c3.changeColor("Purple");
c1.printCat();
c3.printCat();
}
```

Complete the **Cat** class so the **main** method above produces the following output:

```
White cat is sitting
Black cat is sitting
Brown cat is jumping
Red cat is purring
Blue cat is sitting
Purple cat is jumping
```