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Bicycle.java

```
public class Bicycle{//open class

	//instance variables
	private int Speed;
	private int Gears;
	//class variable
	private static int BicycleCount = 0;

	public Bicycle(){//open constructor
		this.Speed = 0;
		this.Gears = 0;
		BicycleCount++;
	}//close constructor

	public Bicycle(int speed, int gears){//open constructor
		this.Speed = speed;
		this.Gears = gears;
		BicycleCount++;
	}//close constructor

	public int getSpeed(){//open Speed getter
		return this.Speed;
	}//close Speed getter
```

```
	public void setSpeed(int speed){//open setter
		this.Speed = speed;
	}//close setter

	public int getGears(){//open getter
		return this.Gears;
	}//close getter

	public void setGears(int gears){//open setter
		this.Gears = gears;
	}//close setter

	public int getCount(){//open getter
		return BicycleCount;
	}//close getter

}//close class
```

BicycleTest.java

```
public class BicycleTest{//open class

	public static void main(String[] args){//open main method

		//create 3 Bicycle objects using both types of constructors
		Bicycle a = new Bicycle();
		Bicycle b = new Bicycle(20,5);
```

```
        Bicycle c = new Bicycle(35,7);

        //Testing getter and setter methods.
        System.out.println("Bicycle B Speed: "+b.getSpeed()+", Gears: "+b.getGears());
        a.setSpeed(25);
        a.setGears(6);
        System.out.println("Bicycle A Speed: "+a.getSpeed()+", Gears: "+a.getGears());
        System.out.println("Number of Bicycles Created: "+a.getCount());

        //Three ways of getting rid of an objects reference:

        //assigning a new object to the same reference variable
        a = new Bicycle();

        //setting value of the reference variable to null
        b = null;

        //reference only used in method, such as Test below
        Test();
    }//close main method

    public static void Test(){//open Test method
        Bicycle temp = new Bicycle();
    }//close Test method
}//close class
```

```
D:\Users\marti\Files\Programming\Java\OOP2\Assignment5>java BicycleTest
Bicycle B Speed: 20, Gears: 5
Bicycle A Speed: 25, Gears: 6
Number of Bicycles Created: 3
```