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Add Garbage Collection worksheet to Session10

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Garbage Collection Problems

1.

```
void start() {  
    A a = new A();  
    B b = new B();  
  
    a.someMethod(b);  
  
    b = null;  
    a = null;  
  
    System.out.println("start completed");  
}
```

2.

```
class HappyGarbage  
{  
    public static void main(String args[]) {  
        UselessObjectClass h = new UselessObjectClass();  
        h.methodA();  
    }  
}  
  
class UselessObjectClass {  
  
    public Object methodA() {  
        Object obj1 = new Object();  
        Object [] obj2 = new Object[] {1};  
        obj2[0] = obj1;  
        obj1 = null;  
        return obj2[0];  
    }  
}
```

3.

```

class Bar {
}

class Foo {
    Bar doBar() {
        Bar b = new Bar();
        return b;
    }
}

class Test
{
    public static void main (String args[]) {
        Foo f = new Foo();
        Bar newBar = f.doBar();
        System.out.println("newBar");
        newBar = new Bar();
        System.out.println("finishing");
    }
}

```

4.

```

class Test
{
    private Demo d;
    void start()
    {
        d = new Demo();
        this.takeDemo(d);
    }

    void takeDemo(Demo demo)
    {
        demo = null;
        demo = new Demo();
    }
}

class DemoDriver {
    public static void main(String[] args) {
        Test t = new Test();
        t.start();
    }
}

```

5.

```

public class XRunner {
    public static void main(String [] args) {
        Baz x = new Baz();
        Baz x2 = Baz.m1(x); /* Line 6 */
        Baz x4 = new Baz();
        x2 = x4; /* Line 8 */
        doComplexStuff();
    }
}

class Baz {
    static Baz m1(Baz mx) {
        mx = new Baz();
        return mx;
    }
}

```

```
    }  
}
```

6.

```
public Object m()  
{  
    Object o = new Float(3.14F);  
    Object [] oa = new Object[1];  
    oa[0] = o;  
    o = null;  
    oa[0] = null;  
    return o;  
}
```

7.

```
class X2 {  
    public static void main(String [] args) {  
        FooBar x1 = new FooBar(); /* Line 6 */  
        FooBar x2 = new FooBar(); /* Line 7 */  
        x1.x = x2;  
        x2.x = x1;  
        x1 = new FooBar();  
        x2 = x1; /* Line 11 */  
        doComplexStuff();  
    }  
}  
  
class FooBar {  
    public FooBar x;  
}
```

