Computer Science for Engineers
Exercise 5

Referencing

Prof. Dr. Dr.-Ing. J. Ovtcharova
Dipl. Wi.-Ing. Dan Gutu
12th of December 2008
Arrays: Referencing

```java
int[] a = {14,21,28,56};
int[] b = a;
boolean c = (a==b);  //delivers true
System.out.println(b[3]);  //delivers 56
a[3] = 42;
System.out.println(b[3]);  //delivers 42
```

```java
int[] a = {14,21,28,56};
int[] b = {14,21,28,56};
boolean c = (a==b);  //delivers false
System.out.println(b[3]);  //delivers 56
a[3] = 42;
System.out.println(b[3]);  //delivers 56
```
public class Circle {
    private int x = 0;
    private int y = 0;
    private int r = 0;
}

... public Circle c = new Circle(); ...

public class Sphere {
    private int x = 0;
    private int y = 0;
    private int z = 0;
    private int r = 0;
    public Circle t = new Circle();
}

... public Sphere s = new Sphere(); ...

// Creates an object of the class Circle

// Nested classes
public class Circle {
    private int x = 0;
    private int y = 0;
    private int r = 0;
    public Circle(int x, int y, int r) {
        this.x = x;
        this.y = y;
        this.r = r;
    }
    ...
    public Circle c = new Circle(2,3,4);
    ...
}
public class Circle {
    private int x = 0;
    private int y = 0;
    public int r = 0;
    public Circle(int x, int y, int r) {
        this.x = x;
        this.y = y;
        this.r = r;
    }
    ...
    public Circle c = new Circle(2, 3, 4);
    ...
    public Circle k = c;
    k.r = 7;
    ...

    // c.r = 7 and k.r = 7