Array Review #1

1. Declare an array of integers which is 5 elements long.

int[ ] A = new int[5];

2. Declare and populate a double array with the following values: 1.1, 2.2, 3.3, 4.4, 5.5, 6.6, 7.7

double[ ] A = { 1.1, 2.2, 3.3, 4.4, 5.5, 6.6, 7.7 };

3. Declare a Boolean array of 100 elements. The first element should be "true".   Alternate between true and false for each of the remaining elements.

e.g.   B[0] = true,   B[1] = false,   B[2] = true,   B[3] = false   …   B[99] = false

```
boolean[ ]  B =  new boolean[100];
for(int i=0; i < B.length; i++) {
        if (i % 2 == 0) B[i] = true;
        else B[i] = false;
}
```

4. Declare an array of 50 Circles.   Set the radius of each circle to it's corresponding index within the array.

```
Circle[ ]  c =  new Circle[50];
for(int i=0; i < c.length; i++) {
         double radius = i * 1.0;   //a quick way to convert from int to double
         c[i] = new Circle( radius );
}
```

5. Display the totalArea of the 50 circles mentioned in #4.

```
double totalArea = 0.0;

for(int i=0; i < c.length; i++) {
        totalArea += c[i].area( );
}
System.out.println( String.format("totalArea = %,.2f", totalArea );
```