CS 2114 Practice Problems 2/1/2016

Part 1: Tracing

1. Use the table below (you may need more rows) to trace the following
while loop and determine the final value of pos:

```
double[] values = {3, 6, 10, 12, 100, 200, 250, 500};
int searchedValue = 100;
int pos = 0;
boolean found = false;
while (pos < values.length && !found) {
      if (values[pos] == searchedValue) {
            found = true;
      } else {
            pos ++;
      }
}
```

pos	found
0	false

2. Use the table below (you may need more rows) to trace the following
for loop and determine the final state of values:

```
double[] values = {3, 6, 10, 12, 100, 200, 250, 500};
int pos = 2;
for (int i = pos + 1; i < values.length; i++) {
     values[i-1] = values[i];
}
```

i	values
3	{3, 6, 10, 12, 100, 200, 250, 500}

Part 2: CodingBat Arrays

1. firstLast6
http://codingbat.com/prob/p185685

2. commonEnd
http://codingbat.com/prob/p191991

3. reverse3
http://codingbat.com/prob/p112409

4. middleWay
http://codingbat.com/prob/p146449

5. no23
http://codingbat.com/prob/p175689

6. fix23
http://codingbat.com/prob/p120347

7. makeMiddle
http://codingbat.com/prob/p199519

8. midThree
http://codingbat.com/prob/p155713

9. unlucky1
http://codingbat.com/prob/p197308

Part 3: Eclipse Shortcuts

Try these out!

1. Comment a line or block of code – ctrl/command + /

2. Javadoc comment a line or block of code – ctrl/command + shift + /

3. Delete a line – ctrl/command + d

4. Jump to a method declaration (even in a different class) – ctrl/command + click on the method name

5. Have Eclipse suggest what to type- ctrl + space