

*You will attach this as a cover sheet to your entire, stapled problem set.*

1. Read Chapter 4 in your textbook. Write down the objectives at the start of the chapter and attach. Please exclude section 4.10 for this assignment – we'll come back to it later.

2. What output will the following code segment produce?

```
int a = 15;
a /= 3;
a += 2;
a ++;
a %= 3;
System.out.println(a);
```

3. Work Exercise 4.2 #s 1 & 2 on p. 109.
4. Work Exercise 4.3 #s 1, 2, 3 on pp. 110-111. Note that 3(a) is hugely important for later, so think carefully!
5. Under what conditions can you drop the braces {} in an if statement? Write an example.
6. Type in, compile, and execute the CircleArea program on p.115. Provide a screenshot of your successes as usual.
7. Work Exercise 4.4 #s 4, 5, 6, 7 on pp. 115-116. Note for #4 we want boolean values.
8. Type in, compile, and execute the Factorial program on p.119. Provide a screenshot of your successes as usual.
9. Work Exercise 4.5 #s 4 & 5 on p. 120.
10. Work Exercise 4.6 #s 1, 2, 3 on pp. 123-124.
11. Work Exercise 4.7 #s 1 & 2 on pp. 126-127.
12. Type in, compile, and execute the ComputeAverage program beginning on p.128. Provide a screenshot of your successes as usual.
13. Type in, compile, and execute the FilterZeroes program beginning on p.129. Provide a screenshot of your successes as usual.
14. Type in, compile, and execute the LuckySevens program beginning on p.132. Provide a screenshot of your successes as usual.
15. Draw a unique sketch or diagram that illustrates in a visual way the loop errors detailed in Section 4.9.
16. Work projects 4-1, 4-2, 4-3, 4-5, 4-7 & 4-8. Provide a screenshot of your successes as usual.