Announcements: Program 3 tonight at 11; Embedded 5 due Thur before lecture

Lecture Summary: ch 4, most attention to for loops, conditionals. Math class, random(), static methods introduced in text.

1. Remember that casting converts between types: (int)'a' -> 97; (char)97 -> 'a'. What is (char)('a'+1), and why?

2. Today is Monday, October 4, 2010. The fact that 365%7 = 1 means that October 4 will fall on what day of the week in 2011?

3. This loop does what?

   for(int j = 0; j < 5; j++){
       System.out.println(j);
       System.out.println(j*j); }

4. This loop does what?

   int sum = 0;
   for( j = 0; j < 77; j++){
       sum = sum + j; } // or: sum += j;
   System.out.println(sum);

5. What is the value of ch after the two lines of code below execute?

   int n = (int)'a’ + (int)'b’ + (int)'c’;
   char ch = (char)(n/3);
6. This loop prints what numbers?

```java
for (int n = 0; n < 50; n++){
    if ((n % 3 == 2) && (n % 5) == 0)
        System.out.println(n);
}
```

7. If s is a String, write a loop that prints its characters in a column. How would you change it so that it just prints the letters in a column?

Thoughts / Ideas about program 3:

1. NO comments before the class declaration line:

   ```java
   import java.util.Scanner;
   public class AvLetter{
   [after you submit your code, you will see this]
   /* OWL COMMENT import java.util.*; END COMMENT */
   public class AvLetter{
   
   2. Make sure you understand problem 5 above.
   3. Watch the movie on casting in Ch 4.1.
   4. Watch the movie on accumulators and filters in Ch 4.5.
   5. Make sure you understand what Character.isLetter(c) does. (see #7 above!)
   6. Make sure you difference between the Scanner methods next(), nextLine()