Announcements:
Ch 9 up soon. Next program due Tuesday. Grades for programs 1,2,3,4,5 now official. Current OWL assignment due Friday
Captive Lab sessions: thur 230-5, fri 10-1230/LGRT 213
(Monday is also possible – watch the website)

Tuesday – Programming examples / Inverse Manhattan problem, using binary search WordFrequency, using StringTokenizer class
(also did sieve method for primes)

Problems:

1) Write a method that’s passed an array of Strings, determines if they’re in ascending order by length.

2) Write a method that’s passed an array of ints, reports the size of the largest gap between any two entries.

3) StringTokenizer work

```java
import java.util.StringTokenizer;

public class TokenizerTest{
    public static void main(String[] args){
        StringTokenizer str;
        Scanner scan = new Scanner(System.in);
        System.out.println("enter a line of text");
        String s = scan.nextLine();
        str = new StringTokenizer(s); // vs StringTokenizer(s,".,!?,; ");
        while (str.hasMoreTokens()){
            System.out.println(str.nextToken());
        }
    }
}
```

4) Write a complete program in a single class that reads in a string of A,s, B,s only, reports the number of blocks of B’s it sees.

5) The programming project for next week: pascal’s triangle. Do: pencil and paper work; the two class approach; Remember: comments required!

6) A big project; a keyword search. Read a list of keywords. How many times do they occur, in total, in a multi-line text you enter at the keyboard? What’s the central mechanism (algorithm) of the problem? What are the participating classes? Where is the work done?

7) Make a Planet class – name the planet, distance from sun, have an atmosphere? Weight? (mass) Methods – get methods, set method, max, min dist from earth. Design using two constructors.