Announcements

• HW 6 due Tuesday (RPN calculator)

• Quiz today (Running times)

• Reading
  – Monday: Rest of Chapter 7
Recursive methods

• Check for base case

• Otherwise, break the problem into 1 or more smaller problem instances. Solve them by calling themselves and use the results to solve the original problem.
Example from text: Countdown

```java
public static void countDown(int n) {
    //prints numbers from n down to 1
    System.out.println(n);
    if(n > 1)
        countDown(n-1);
}
```

Which of the following is a base case for this method?
A. 0  
B. 1  
C. n-1  
D. n  
E. Not exactly one of A thru D
Example from text: Countdown

```java
public static void countDown(int n) {
    // prints numbers from n down to 1
    System.out.println(n);
    if(n > 1)
        countDown(n-1);
}
```

Which of the following is a base case for this method?
A. 0  B. 1  C. n-1  D. n  E. Not exactly one of A thru D
Example from text: Countdown

```java
public static void countDown(int n) {
    // prints numbers from n down to 1
    System.out.println(n);
    if(n > 1)
        countDown(n-1);
}
```

Which of the following is a base case for this method?

A. 0   B. 1   C. n-1   D. n   E. Not exactly one of A thru D (A and B)