Day 09 Highlights

1. Reminders
   1. Project 2 is due next Friday (Feburary 8) at 5pm
   2. Next batch of zyBooks (Chapter 4) is due Monday at midnight
2. Loops and input – three basic situations
   1. Know exactly how many numbers you will read

**Loop that runs N times**

**Read value**

**Process value**

* 1. No idea how many values that you have, but have a “sentinel value” marking end of input

**Read an initial value**

**While (value is not “sentinel”)**

**Process value**

**Read next value**

**or**

**While (1)**

**Read value**

**If (value is “sentinel”) break;**

**Process value**

* 1. No idea how many values that you have
     1. Read until end-of-file on the input file

**!feof(stdin)**

* + 1. Generate an end-of-file on **standard-input** by **CTRL-d**

**Read an initial value**

**While (have not hit end-of-file)**

**Process value**

**Read next value**

**or**

**While (1)**

**Read value**

**If (hit end-of-file) break;**

**Process value**

1. Examples – for each, identify “type of loop” and then code it
   1. Read in five numbers and print the sum
   2. Read in numbers until you enter zero and print the sum
   3. Read in five numbers and print the largest
   4. Read in numbers until you enter zero and print the largest
   5. Read in five numbers and print the number of positive & number of negative numbers seen
   6. Read in numbers until you enter zero and print the number of positive and the number of negative numbers seen