Day 13 Highlights

1. Reminders
   1. Project 2 is due today at 5pm
   2. Project 3 will be posted Monday
   3. More zyBooks (Chapter 5) due Monday
2. Two quick items for everyone
   1. Make sure you have proper indentation for each statement. Please see Section 2.21 of zyBooks for style guidelines.
   2. Declarations in a **for** statement **gcc –std=c99**

**for (int a=0; a<5; a++) {**

*We use this option to grade your work in CS 100*

1. Arrays – collection of identical elements (array of characters)

**int scores[20];**

**double results[100];**

**int x0, x1, x2, x3, x4; int x[5];**

**x2=(x0+x4)/2; x[2]=(x[0]+x[4])/2;**

**scanf(“%d”, &x0); scanf(“%d”, &x[0]);**

**for (i=0; i<5; i++) scanf(“%d”, &x[i]);**

**printf(“x2=%d”, x2); printf(“x[2]=%d”, x[2]);**

**for (int i=1; i<=5; i++)**

**printf(“x[%d]=%d”, i-1, x[i-1]);**

* 1. The first element is stored in location 0 (not location 1)
  2. Basic usage

**int main(void) {**

**int a[10]; // declare**

**int array[5] = { 3,1,4,1,5 };// declare and init**

**// int array[5] = { 0 };// declare and init**

**// int array[5] = { 3 };// same as {3,0,0,0,0}**

**printf("%d\n", array[0]); // prints 3**

**printf("%d\n", array[2]); // prints 4**

**printf("%d\n", array[4]); // prints 5**

**int x = 37; // problems here**

**printf("%d\n", array[x]);} // explain the issue**