Day 31 Highlights

1. Reminder
   1. zyBooks exercises due today at midnight
   2. Lab 8 this week. The remaining labs will meet in NL2007.
   3. Project Five is due this Wednesday at 5pm
   4. No meeting this Friday
2. Linked list for polynomials

|  |
| --- |
| **typedef struct \_term {**  **double coef;**  **int degree;**  **struct \_term \*next;**  **} Term;** |

1. A linked list for polynomials (e.g. 5.5x4 + 2.5x2 + 17.3x1)
   1. Last time we looked at “iterating through a list”
   2. Today – add terms to the polynomial
2. Three standard ways to add terms
   1. Add at the start – very easy **build algorithm, then code**
   2. Add at the end – also easy **build algorithm, then code**
   3. Add in order – harder **to be covered next lecture**
3. Divide poly.c into three files: poly.h, poly.c and test.c. Now compile with

gcc -Wall -std=c99 poly.c test.c -lm