Handout #8 - Tuesday, September 22, 2005

- 1. Quiz Tuesday
- 2. Exam next Thursday (9/20)
- 3. HW due Tuesday (9/27) at 10:00am (program assignment below)
- 4. Chapter 4
 - (a) Call-by-Value parameters (review) p141
 - (b) GetInput example p143
 - (c) Call-by-reference parameters p145
 - (d) A look at memory and labels
 - (e) Pitfall: Inadvertent Local variables p152
- 5. Assigned Reading: Chapter 4
- 6. **Homework**: Due: Tuesday 9/27/2005: Translate your written pseudocode into real code on albert. Chapter 3, Problem 5, page 136. Make sure to follow the grading metric.

You should have three functions in this program. One function to compute hat size, that takes weight and height as arguments. One function to compute jacket size, that takes weight, height and age as arguments. The third function is to compute waist in inches and takes weight and age as arguments. The functions should all return non-void values and should not have cin or cout statements in them. Below is typical output:

Input weight: 150 Input height: 65 Input age: 20 Your hat size is 6.692307 Your jacket size is 33.854167 Your waist size is 26.315789

- 1. Grading Metric for programs
 - (a) Late homework is a 0/100 (feedback given and noted in the gradebook)
 - (b) If code does not compile, 0/100. (feedback where possible)
 - (c) If code does not execute, 0/100. (feedback where possible)
 - (d) Program Style
 - i. Use const for literals/globals/constants
 - ii. Comment code where appropriate
 - iii. Use appropriate variable names
 - iv. Order of operations should be clear via parentheses
 - v. Indent appropriately
 - vi. Use procedural abstraction (include comments for functions: precondition, postcondition and especially describing the return value)
 - vii. Prompt for input when using cin
 - viii. Format output appropriately
 - (e) Solve the Problem
 - i. The code should solve the problem(s) proposed
 - A. Solve the problem for expected values and cases
 - B. Solve for base cases
 - C. Solve for boundary conditions
 - D. Good code should handle unexpected values gracefully
 - ii. The code should include all features requested by the problem