CS 100M Lecture 7 February 12, 2002

Topics: Program design, trace

Reading (ML): -

Programming Rules of Thumb

- Learn program patterns of general utility and use relevant pattern for the problem at hand.
- Seek inspiration by systematically working test data by hand. Be introspective; ask yourself: "what am I doing?"
- Declare variables for each piece of information you maintain when working problem by hand. Write comments that precisely describe the contents of each variable.
- Decompose problem into manageable tasks.
- Remember the problem's boundary conditions.
- Validate your program by tracing it on simple test data.

Program Trace

Trace the execution of the following program:

Example:

Write a program that reads an input value in the range of 1 to 12 (integer only) to represent the month of the year. The program should assign to a variable **days** the integer number of days in that month and print the number of days to the screen. Assume a non-leap year. You must use a conditional statement in your program.