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EECS10 DISCUSSION

7/3/12 Week1 Session2 Weiwei Chen

Discussion Outline

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- Quick Concepts Review
 - Program Structure
 - Variables
 - Basic C types
 - Definition and initialization
 - Arithmetic operations
- Assignment Discussion: add two timestamps

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Program Structure

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□ What is the typical structure of a C program?

▣ Input

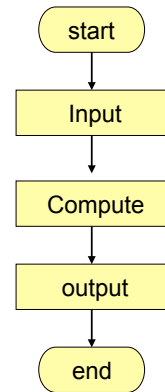
- read input data: `scanf()`

▣ Compute

- Compute output data from input data

▣ Output

- Write output data



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Variables in C (Think-pair-share)

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□ What is a variable?

□ List some variables types that you know so far

□ How to define an *floating point* variable named *f*?

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Variables in C (Debriefing)

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- What is a variable?
 - ▣ The name for a place in the computer's memory where you store some data
- List some variables types that you know so far
 - ▣ char, short, int, long, long long, float, double, long double, ...
 - ▣ unsigned char, unsigned int, unsigned long, ...
 - ▣ Different range, different format specifiers (lecture slide 24~26)
- How to define an *floating point* variable named *f*?
 - ▣ float f;
 - ▣ At the beginning of the function
 - ▣ Initialization

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Arithmetic Operations

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- Arithmetic Operators
 - ▣ ()
 - ▣ -, + unary, e.g. -1, +2
 - ▣ *, /, %
 - ▣ +, -
 - ▣ <<, >>
- Evaluation order of expressions
 - ▣ Usually left to right
 - ▣ By operator precedence

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Assignment Discussion

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- Answer the questions on the paper
- Discuss with your neighbor about your answer
- Debriefing

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EECS10 LABORATORY

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Week1 Session2

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Pre-lab Checklist

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- Ladera account ready?
- Computer lab account ready?
- Any questions about the lecture / discussion / homework other than programming details?

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Lab tips

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- How to change the password
 - % yppasswd
- Open two terminals for work
 - File editing
 - File compilation
- Pico tips:
 - Cut (ctrl+k)
 - Paste (uncut, ctrl+u)
 - Current Position (ctrl+c)
 - Search (where is, ctrl+w)
 - Search multiple times:
 - keep pressing ctrl+w, then enter

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It is time to program!

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- Raise your hand if you need help