

Discussion Outline Administrations Quick Concepts Review Comparison of values Something about the Operators Control flows in C conditional statement repetition statement Assignment Discussion Calculate the approximate value of ex

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Administrations

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- Good discussions on the course Messageboard
- Please post any homework or lecture related questions on the course Messageboard.
 - Questions via emails will be directed to the Messageboard
- Please read the posts on the Messageboard
 - □ Read the assignment!!
 - □ Read the lecture slides!!
- □ Please visit the discussion / lab sessions as well as the office hours for confusing questions
 - □ Face to face communicate if more efficient
- □ First mid-term on Thursday!!

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Comparison of Values

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- Relational Operators
- Logical Operators
- Conditional Operators
- Please write down your understanding about relational operators, logical operators and conditional operators (2min)

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Comparison of Values

- Relational Operators
 - Direct comparison of two values
 - Boolean result: true or false
 - Logical Operators
 - Operations on Boolean values
 - Conditional Operators
 - Conditional evaluation of expressions

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Interactive Review:

evaluate the following expressions

```
□ 5 < 6</p>
                                   □ 1
\Box float f1 = 6.0, f2=6e1;
                                      0
   □ f1 > f2
   □ f1 > -f2
                                      a 1
\Box int i = 10;
   \Box (i < 20) && (i > 5)
                                      \Box (i < 5) | | (i > 10)
                                      0
   \square!((i < 1) | | (i > 9))
                                      0
\square int d = -3; evaluate d
   \square d = (4 < 5) ? (43) : (4+8) \square d = 43
   \Box d = (d == -1-2) ? (-d) : (d) \Box d = 3
   \Box d = (d < 0) \circ (-d) : d
                                      □ d =3
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```

Operator Evaluation Order

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- Associativity
- □ Precedence
- □ Please refer to slide #17 of Lecture 3.

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Advanced Operators



□ Augmented Assignment Operators

- □ Increment and Decrement Operators
 - □ Post-increment count ++;
 - □ Pre-increment ++ count;
 - □ Post-decrement count --;
 - □ Pre-decrement -- count;

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Control Flows in C

- □ C program lines are executed in a sequential way
- Conditional Statement
 - □ if statement
- □ Repetition Statement
 - while statement
- Minute Paper:
 - Write down the syntax of the if and while statement
 - Draw the control flow chart for the if and while statement.

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Control Flows in C ☐ if Statement if(/*condition*/) /*body;*/ Condition? true false /*after if statements;*/ while Statement while(/*condition*/) /*body;*/ Condition? Body /*after if statements;*/ false Condition: expression evalua 1(true) or 0 (false) (c) W.Chen EECS UC Irvine 7/3/12

Think-Pair-Share

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- □ Write the C program lines that will get the absolute value of an integer variable x (initial value is -42, and store this value in an integer variable y).
 - Use the if-statement
- □ Write the C program lines to get the sum of the first10 positive natural numbers.
 - Use the while statement

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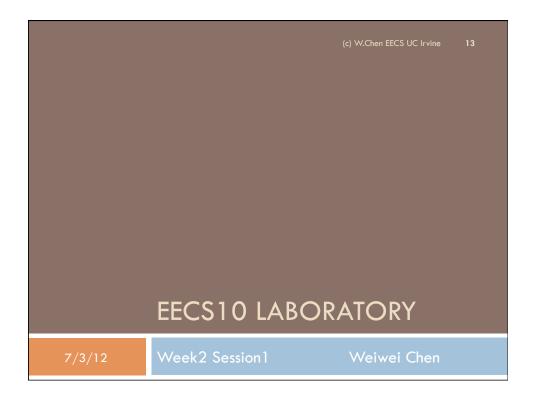
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Assignment Discussion

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- □ Assignment 2, Part 1
- □ Think-Pair-Share Activity
- \square Please refer to the sample program on Slides $#30\sim#32$ for Lecture 2.

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Some good practices for writing the C program code Always type parenthesis, brackets, quotes in pairs Indentation (c) W.Chen EECS UC Irvine 7/3/12

It is time to program!

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□ Raise your hand if you need help

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