EECS 10: Computational Methods in Electrical and Computer Engineering Quiz on Lectures 1-8

Rainer Dömer

doemer@uci.edu

The Henry Samueli School of Engineering Electrical Engineering and Computer Science University of California, Irvine

Quiz: Question 1

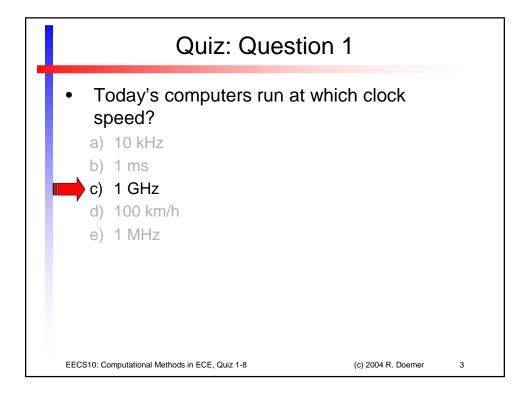
- Today's computers run at which clock speed?
 - a) 10 kHz
 - b) 1 ms
 - c) 1 GHz
 - d) 100 km/h
 - e) 1 MHz

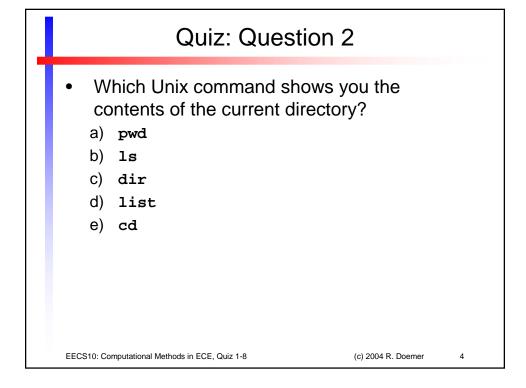
EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

2

(c) 2004, R. Doemer





• Which Unix command shows you the contents of the current directory? a) pwd b) 1s c) dir d) list e) cd

Quiz: Question 3

- Which of the following Unix commands renames file "text1" into "homework1"?
 - a) ren text1 homework1
 - b) mv text1 homework1
 - c) rm text1 homework1
 - d) rm homework1 text1
 - e) ren homework1 text1

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

6

- Which of the following Unix commands renames file "text1" into "homework1"?
 - a) ren text1 homework1
- b) mv text1 homework1
- c) rm text1 homework1
- d) rm homework1 text1
- e) ren homework1 text1

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

7

Quiz: Question 4

- What is C not?
 - a) a structured programming language
 - b) a compiled programming language
 - c) a high-level programming language
 - d) a portable programming language
 - e) a object-oriented programming language

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

8

(c) 2004, R. Doemer

What is C not? a) a structured programming language b) a compiled programming language c) a high-level programming language d) a portable programming language e) a object-oriented programming language e) a object-oriented programming language

Quiz: Question 5

 What is the meaning of the following code fragment?

/* printf("C programming is great!\n") */

- a) it prints "C programming is boring!"
- b) it is the main function of the C program
- c) it is a comment ignored by the compiler
- d) it prints "C programming is great!"
- e) it is a syntax error because a semicolon is missing after the printf() statement

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

10

5

 What is the meaning of the following code fragment?

/* printf("C programming is great!\n") */

- a) it prints "C programming is boring!"
- b) it is the main function of the C program
- c) it is a comment ignored by the compiler
- d) it prints "C programming is great!"
- e) it is a syntax error because a semicolon is missing after the printf() statement

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

11

Quiz: Question 6

 What is not true about of the following compiler call?

% gcc -Wall -ansi HelloWorld.c -o HelloWorld

- a) the GNU C Compiler is called to generate an executable program called Helloworld
- the compiler will print warning and/or error messages about any non-ANSI compliance in the code
- c) the compiler will read the file HelloWorld.c
- d) the compiler will ignore all warnings
- e) the compiler will assume that Helloworld.c is an ANSI-compliant C program

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

12

(c) 2004, R. Doemer

- What is not true about of the following compiler call?
 - % gcc -Wall -ansi HelloWorld.c -o HelloWorld
 - a) the GNU C Compiler is called to generate an executable program called **Helloworld**
 - the compiler will print warning and/or error messages about any non-ANSI compliance in the code
 - c) the compiler will read the file Helloworld.c
 - d) the compiler will ignore all warnings
 - e) the compiler will assume that **HelloWorld.c** is an ANSI-compliant C program

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

13

Quiz: Question 7

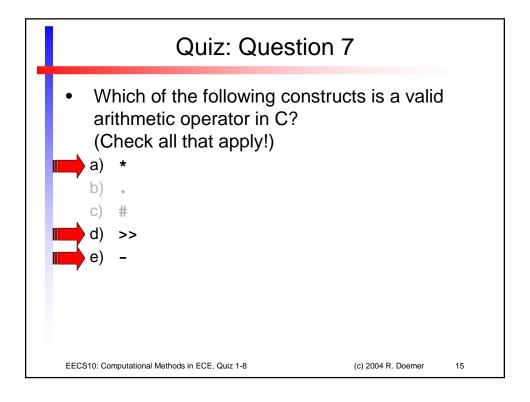
- Which of the following constructs is a valid arithmetic operator in C? (Check all that apply!)
 - a) *
 - D) .
 - c) ‡
 - d) >>
 - e) -

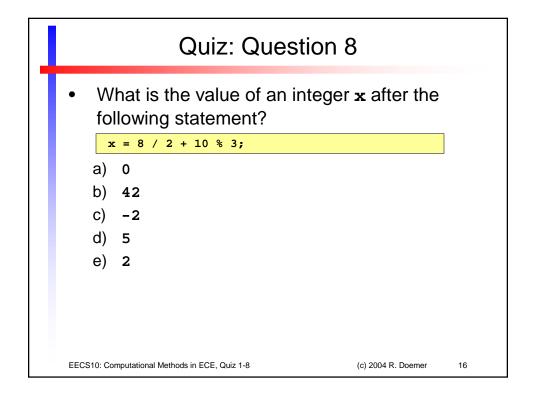
EECS10: Computational Methods in ECE, Quiz 1-8

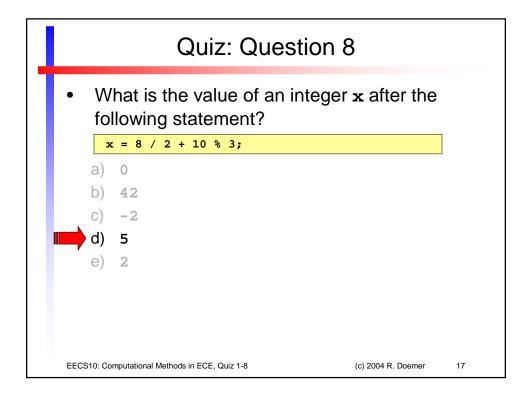
(c) 2004 R. Doemer

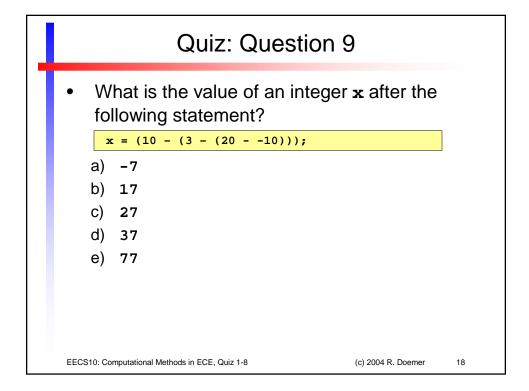
14

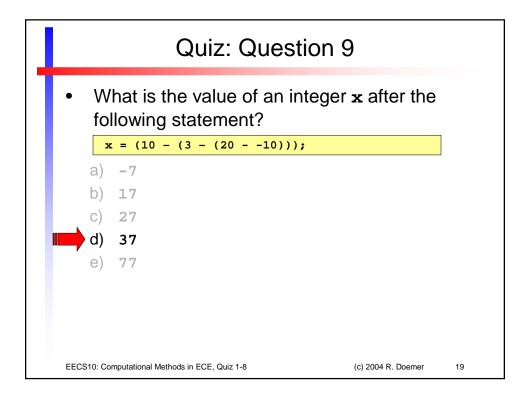
(c) 2004, R. Doemer

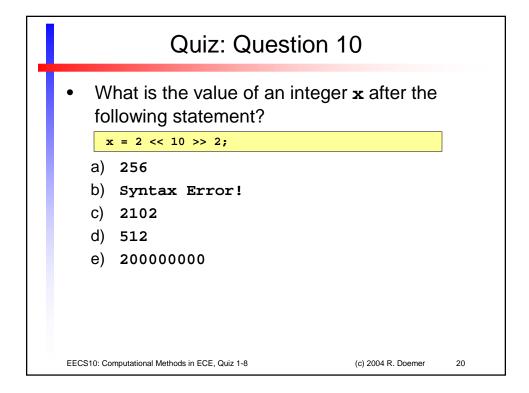


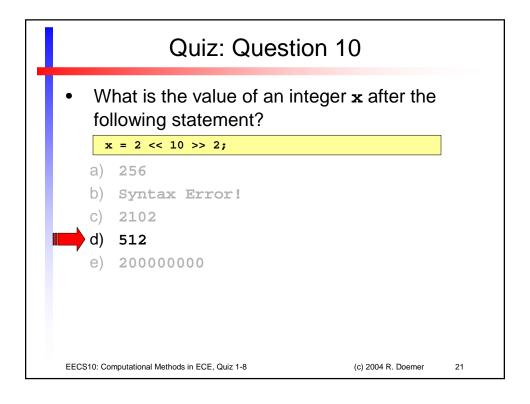


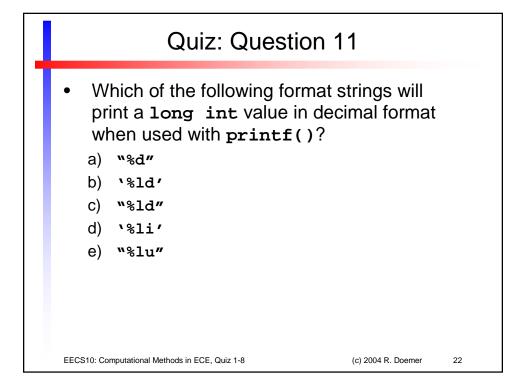












• Which of the following format strings will print a long int value in decimal format when used with printf()? a) "%d" b) '%ld' c) "%ld" d) '%li' e) "%lu" EECS10: Computational Methods in ECE, Quiz 1-8 (c) 2004 R. Doemer 23

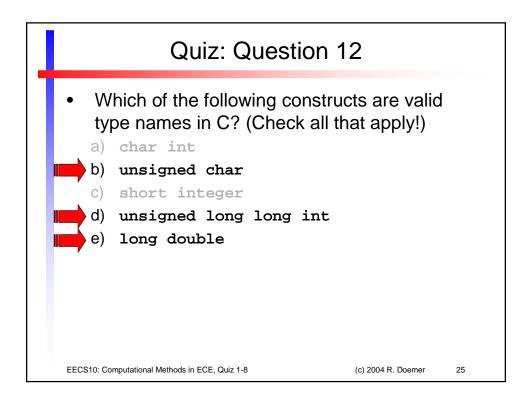
Quiz: Question 12

- Which of the following constructs are valid type names in C? (Check all that apply!)
 - a) char int
 - b) unsigned char
 - c) short integer
 - d) unsigned long long int
 - e) long double

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

24



 Assume Int is a variable of type int and Double is a variable of type double. Which statement is true for the following assignment? (Check all that apply!)

Int = (int)Double;

- a) The assignment is invalid: syntax error!
- b) The parentheses should go around **Double**.
- c) The parentheses should go around Int.
- d) The value in **Double** is converted to an integer value and then assigned to **Int**.
- e) Any fractional part in Double is truncated off.

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

26

 Assume Int is a variable of type int and Double is a variable of type double. Which statement is true for the following assignment? (Check all that apply!)

Int = (int)Double;

- a) The assignment is invalid: syntax error!
- b) The parentheses should go around **Double**.
- c) The parentheses should go around Int.
- d) The value in Double is converted to an integer value and then assigned to Int.
- e) Any fractional part in **Double** is truncated off.

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

27

Quiz: Question 14

- Which of the following expressions correctly computes the polynomial $p = 2x^2 3x + 5$? (Check all that apply!)
 - a) $p = 2x^2 3x + 5$;
 - b) p = x*2*x + 5.0 3*x;
 - c) p = (2*x 3)*x + 2 + 3;
 - d) p = 2/x 5 * (3*x);
 - e) p = 2*(x*x + 3)*x + 5;

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

28

(c) 2004, R. Doemer

- Which of the following expressions correctly computes the polynomial $p = 2x^2 3x + 5$? (Check all that apply!)
 - a) $p = 2x^2 3x + 5$;
 - b) p = x*2*x + 5.0 3*x;
 - c) p = (2*x 3)*x + 2 + 3;
 - d) p = 2/x 5 * (3*x);
 - e) p = 2*(x*x + 3)*x + 5;

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2004 R. Doemer

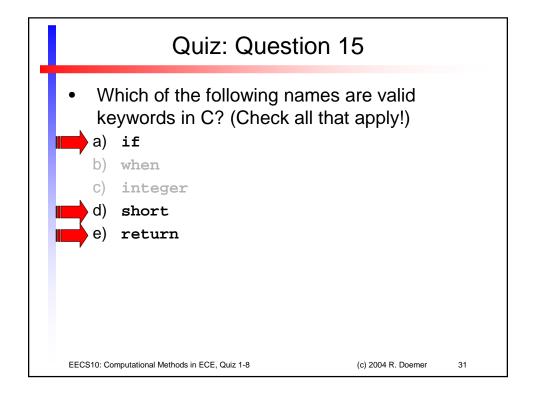
29

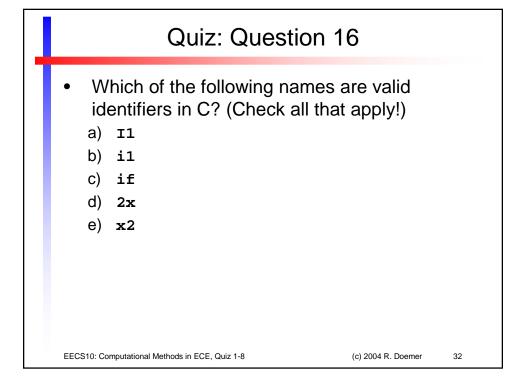
Quiz: Question 15

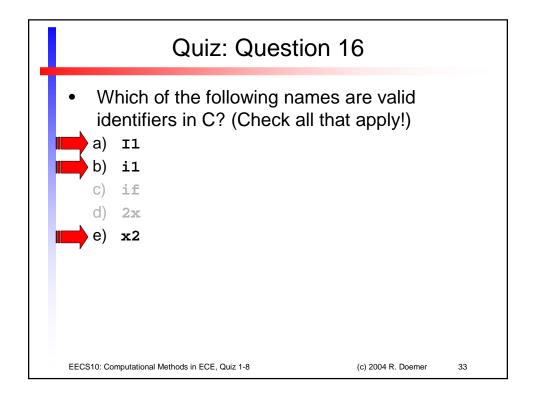
- Which of the following names are valid keywords in C? (Check all that apply!)
 - a) if
 - b) when
 - c) integer
 - d) short
 - e) return

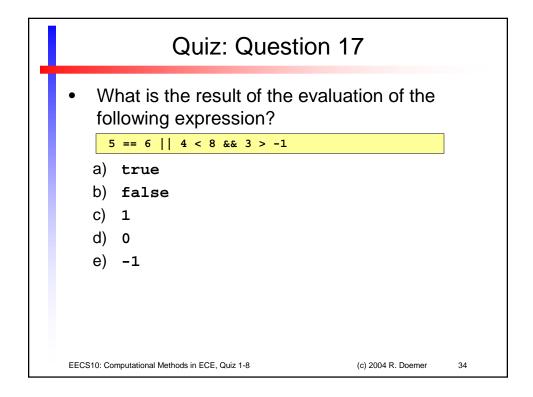
EECS10: Computational Methods in ECE, Quiz 1-8

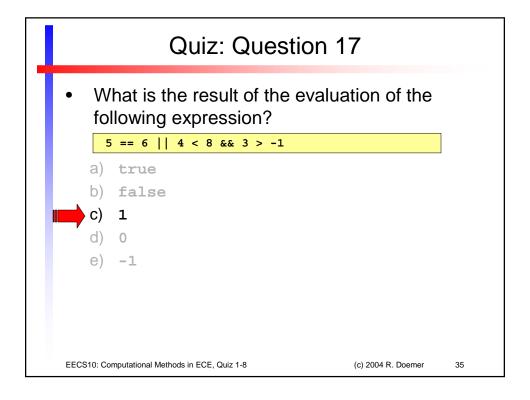
(c) 2004 R. Doemer

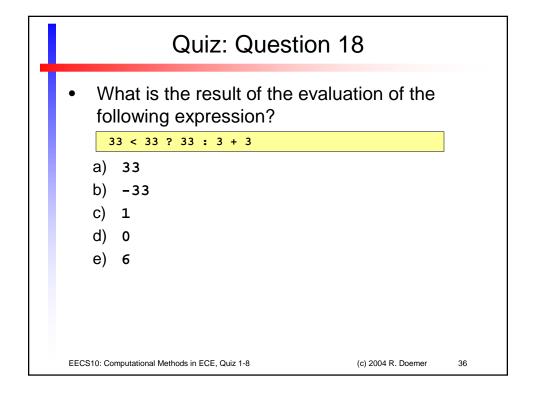


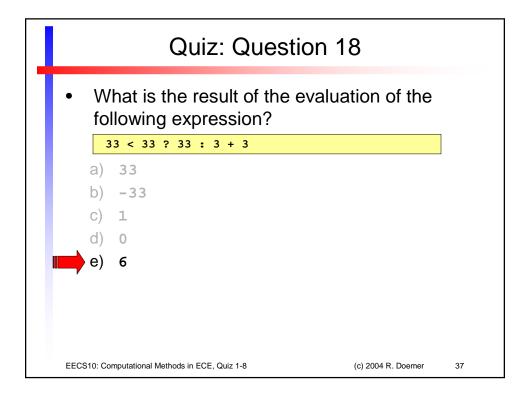


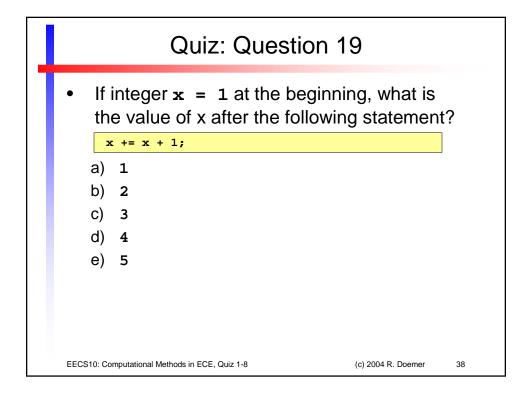


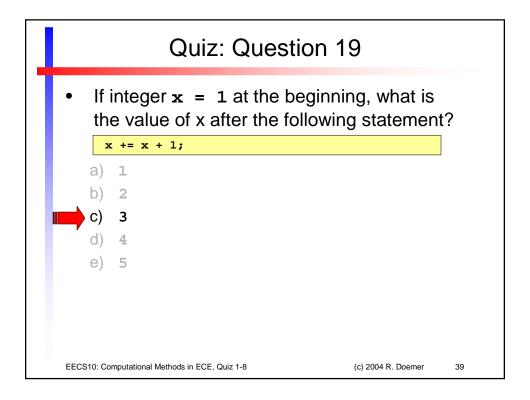












Quiz: Question 20 Given the following program fragment, what is printed when it gets executed? int i = 0;int s = 0;a) nothing while (1) b) 2 { i++; if (i > 10)c) 20 { break; } if (i % 2 == 1) d) 30 { continue; } syntax error printf("%d", s); EECS10: Computational Methods in ECE, Quiz 1-8 (c) 2004 R. Doemer 40

