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

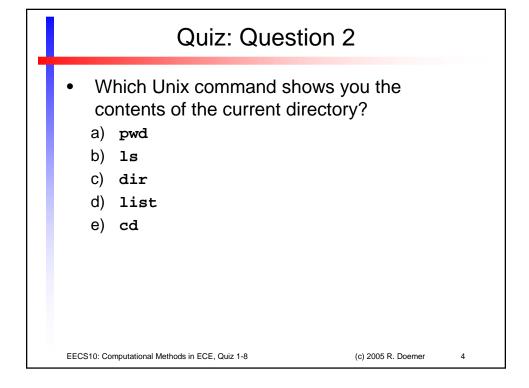
EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2005 R. Doemer

2

(c) 2005, R. Doemer

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



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

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

(c) 2005 R. Doemer

6

EECS10: Computational Methods in ECE, Quiz 1-8

Quiz: Question 3

(c) 2005, R. Doemer

- 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) 2005 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) 2005 R. Doemer

8

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 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) 2005 R. Doemer

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) 2005 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) 2005 R. Doemer

12

(c) 2005, 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) 2005 R. Doemer

13

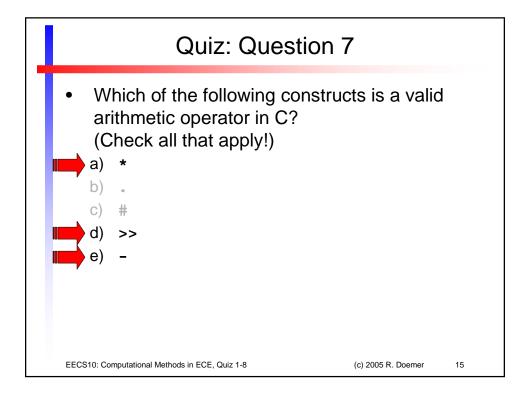
Quiz: Question 7

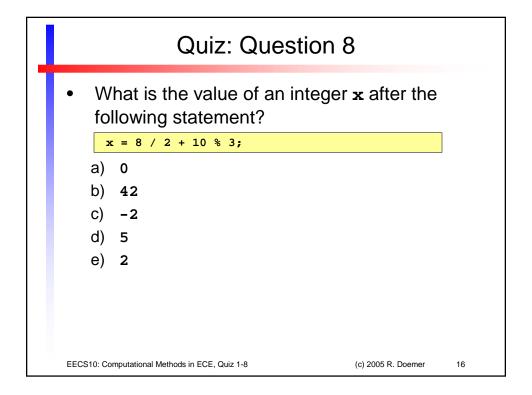
- Which of the following constructs is a valid arithmetic operator in C? (Check all that apply!)
 - a) *
 - b) .
 - c) ‡
 - d) >>
 - e) -

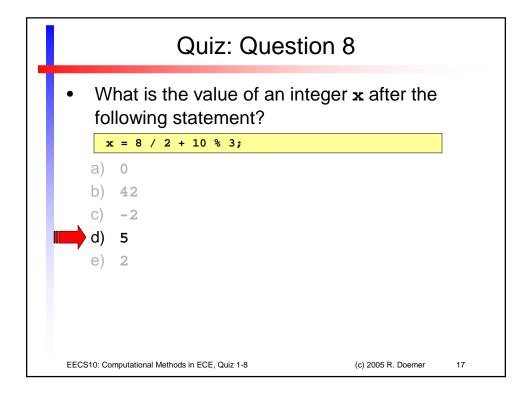
EECS10: Computational Methods in ECE, Quiz 1-8

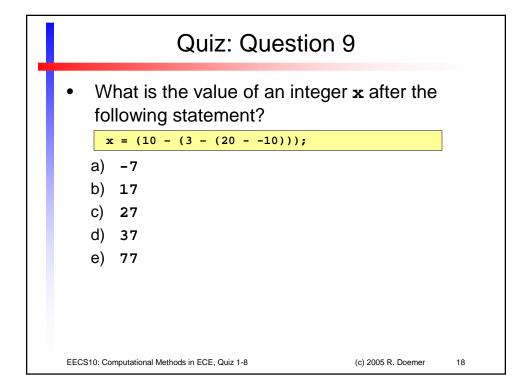
(c) 2005 R. Doemer

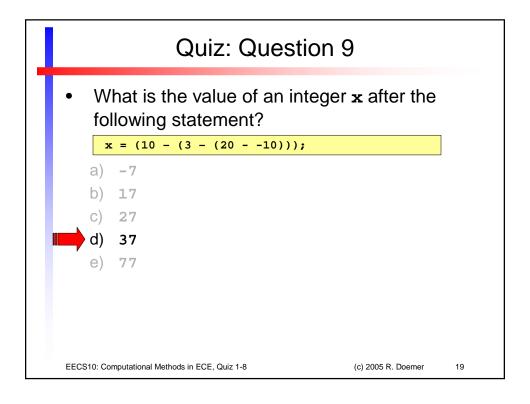
14

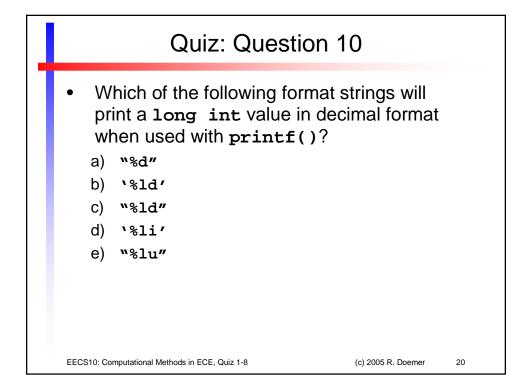


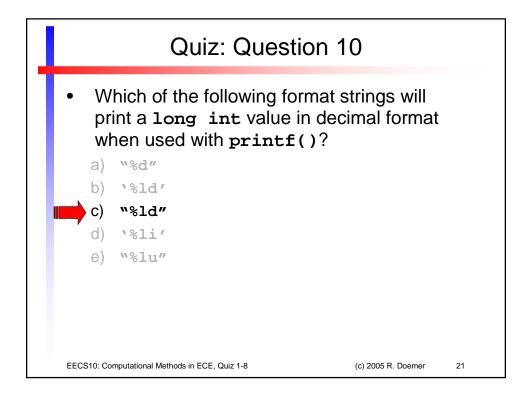


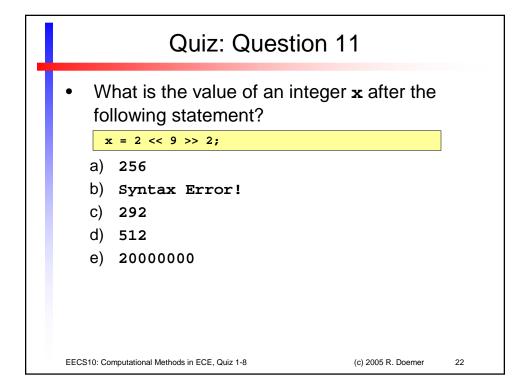


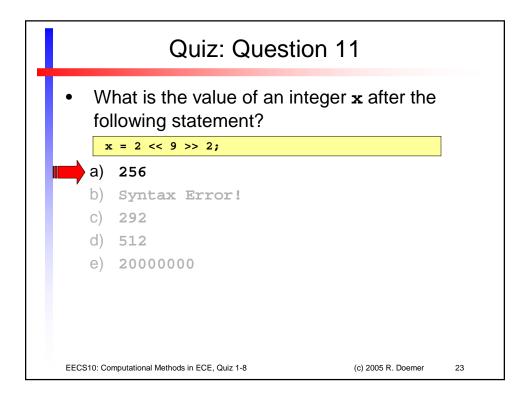


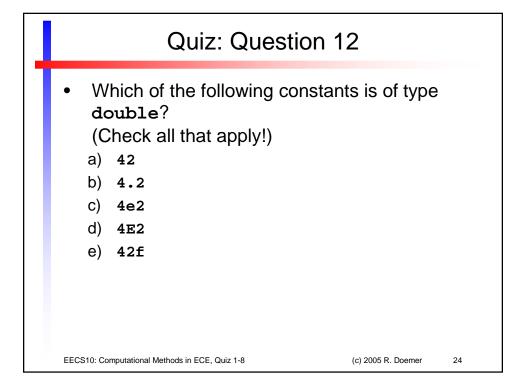


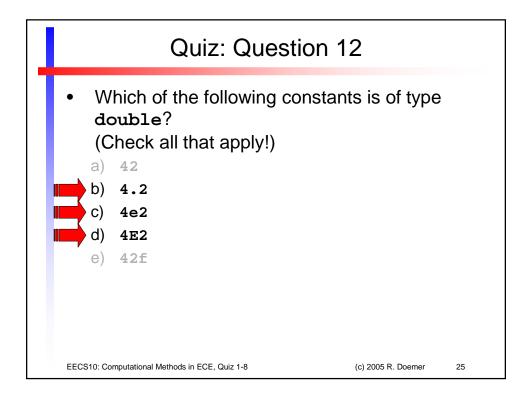


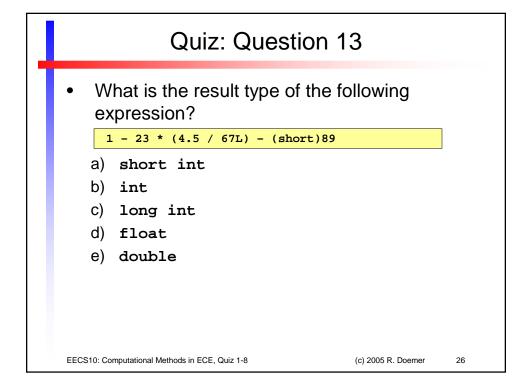


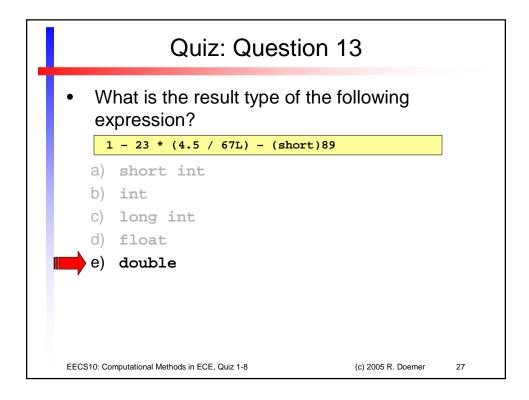




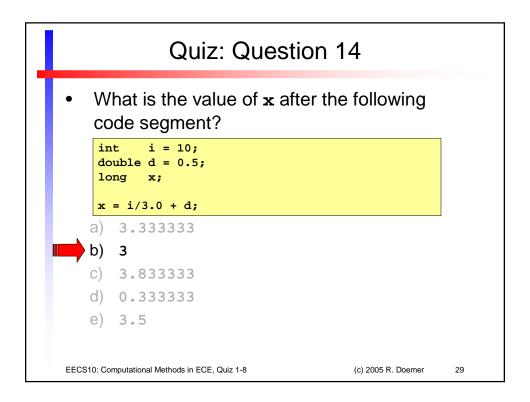








```
Quiz: Question 14
   What is the value of x after the following
   code segment?
    int
           i = 10;
    double d = 0.5;
    long
          x;
    x = i/3.0 + d;
   a) 3.333333
   b) 3
   c) 3.833333
   d) 0.333333
   e) 3.5
EECS10: Computational Methods in ECE, Quiz 1-8
                                        (c) 2005 R. Doemer
```



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

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2005 R. Doemer

30

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

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2005 R. Doemer

31

Quiz: Question 16

 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 precision of Int is doubled.
- 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) 2005 R. Doemer

32

 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 precision of Int is doubled.
- 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) 2005 R. Doemer

33

Quiz: Question 17

- 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 = (2*x 3)*x + 2 + 3;
 - c) p = 2/x 5 * (3*x);
 - d) p = 2*(x*x + 3)*x + 5;
 - e) p = x*2*x + 5.0 3*x;

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2005 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 = (2*x 3)*x + 2 + 3;
 - c) p = 2/x 5 * (3*x);
 - d) p = 2*(x*x + 3)*x + 5;
- \rightarrow e) p = x*2*x + 5.0 3*x;

EECS10: Computational Methods in ECE, Quiz 1-8

(c) 2005 R. Doemer

35

Quiz: Question 18

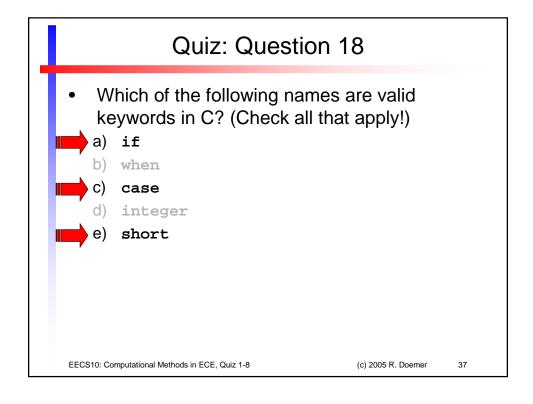
- Which of the following names are valid keywords in C? (Check all that apply!)
 - a) if
 - b) when
 - c) case
 - d) integer
 - e) short

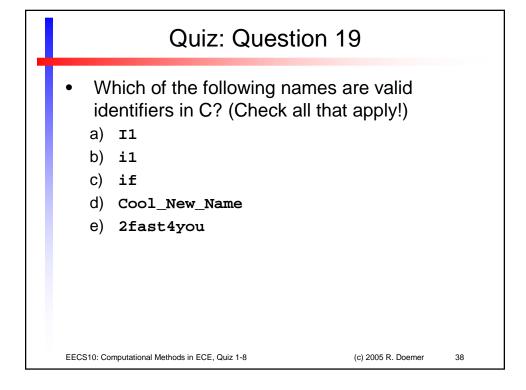
EECS10: Computational Methods in ECE, Quiz 1-8

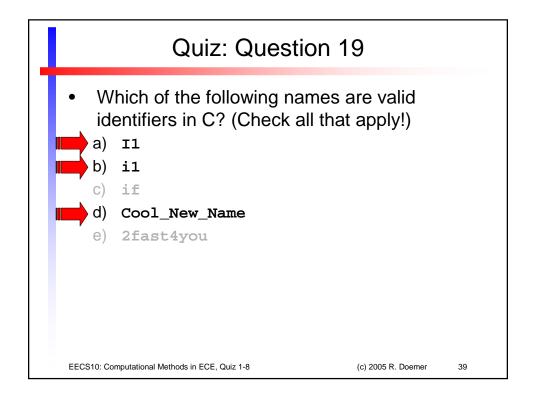
(c) 2005 R. Doemer

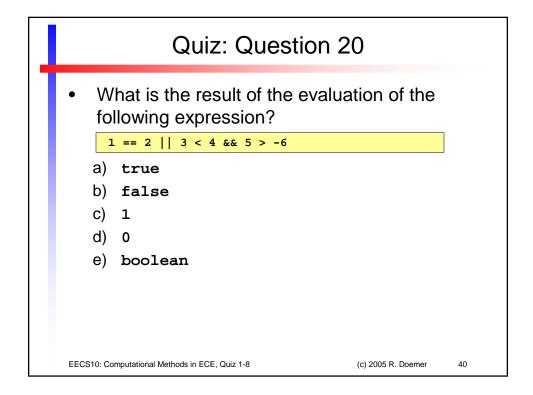
36

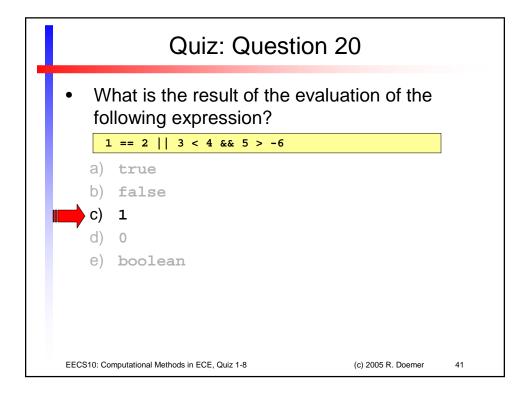
(c) 2005, R. Doemer

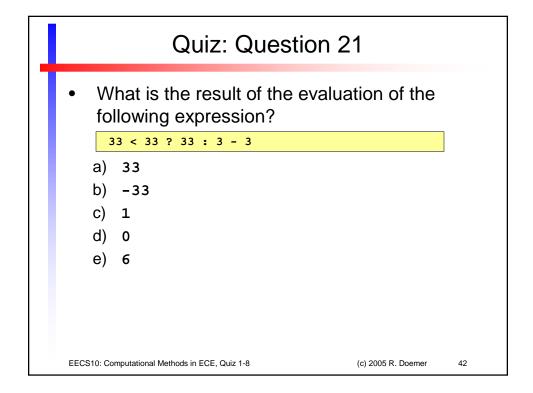


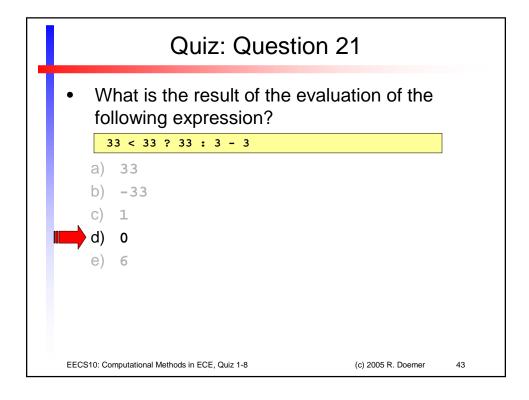


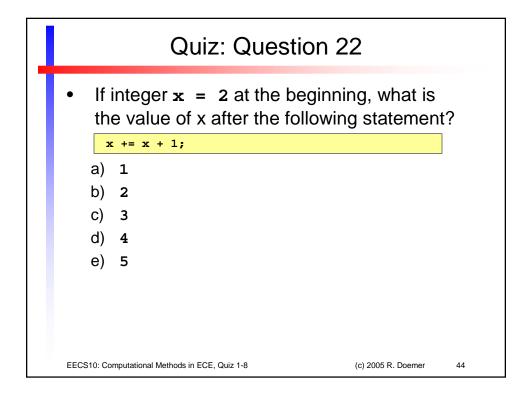


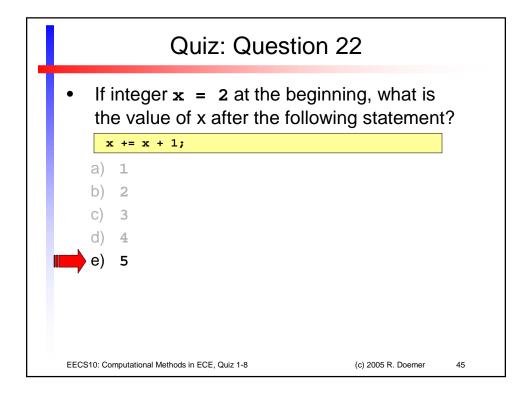


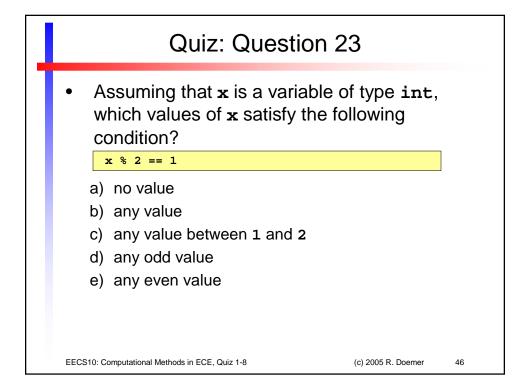


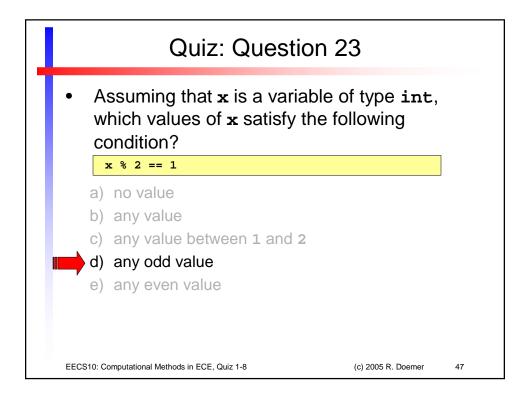












Quiz: Question 24 Given the following program fragment, what is printed when it gets executed? int i = 0;int s = 0;a) nothing while (1) b) 2 { i++; if (i >= 10)20 c) { break; } if (i % 2 == 1) 30 { continue; } e) syntax error printf("%d", s); EECS10: Computational Methods in ECE, Quiz 1-8 (c) 2005 R. Doemer 48

