EECS 10: Computational Methods in Electrical and Computer Engineering Quiz on Lectures 9-17

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Quiz: Question 1

 Which of the following expressions would be treated as a true condition when used with an if statement?

(Check all that apply!)

- a) (int)5.5 > 5
- b) 1 || 0 && 0
- c) 5 == 5
- d) (1 + 2 + 3) == (3 << 2 >> 1)
- e) 5 5

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 Which of the following expressions would be treated as a true condition when used with an if statement?

(Check all that apply!)

```
a) (int)5.5 > 5
```

e) 5 - 5

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Quiz: Question 2

 If cnt is an integer counter, how could one update the value of cnt? (Check all that apply!)

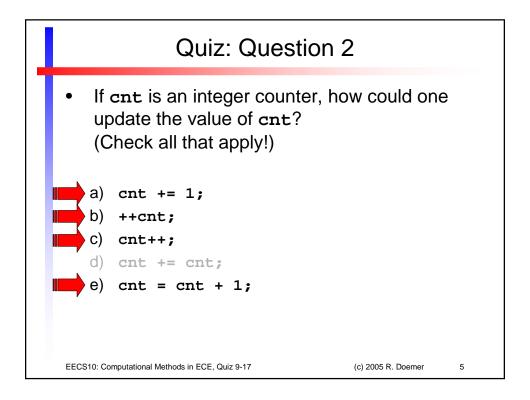
```
a) cnt += 1;
```

- b) ++cnt;
- c) cnt++;
- d) cnt += cnt;
- e) cnt = cnt + 1;

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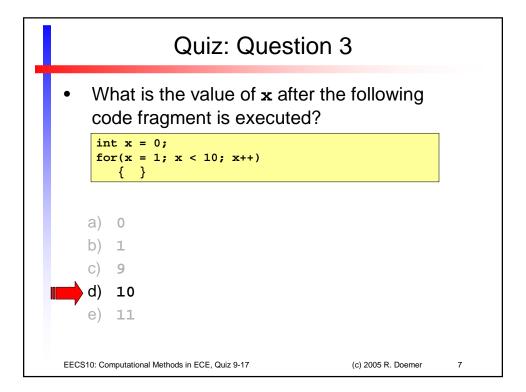
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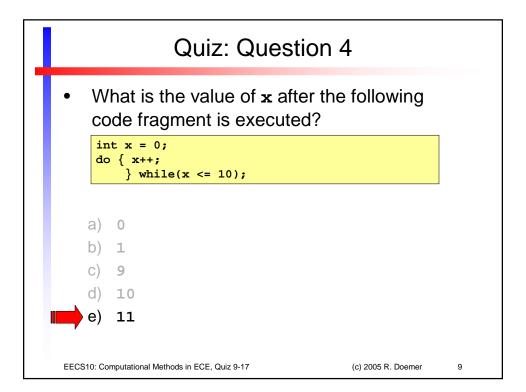


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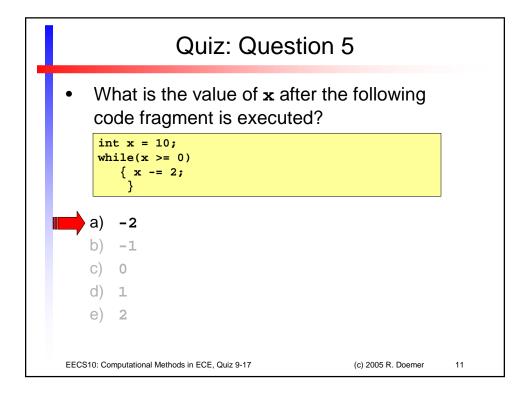
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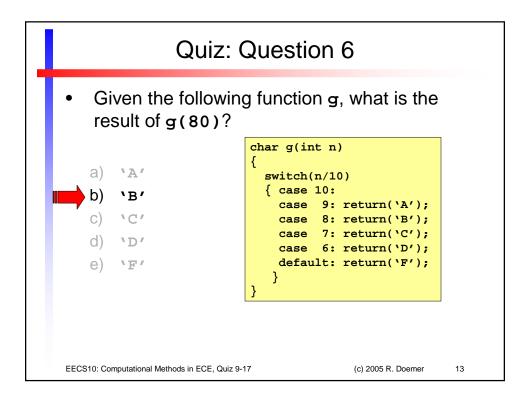




Quiz: Question 5 What is the value of x after the following code fragment is executed? int x = 10; while(x >= 0) ${ x -= 2;}$ a) -2 b) -1 0 d) 1 2 e) EECS10: Computational Methods in ECE, Quiz 9-17 (c) 2005 R. Doemer 10



```
Quiz: Question 6
   Given the following function g, what is the
    result of g(80)?
                           char g(int n)
   a)
       `A'
                             switch(n/10)
                             { case 10:
   b) 'B'
                               case 9: return('A');
       `C'
                               case 8: return('B');
                               case 7: return('C');
       'D'
                               case 6: return('D');
                               default: return('F');
       `F'
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                                                         12
```



What is output by the following C statement?

```
printf("x = %03d.", 3 + 4);
```

- a) x = 3 + 4
- b) x = 007
 - c) x = 00007
 - $d) \mathbf{x} = 7$
 - e) x = -7

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Quiz: Question 8

- In the gdb debugger, what does next do?
 - a) It moves to the next argument of the function.
 - b) It executes the next statement in the program.
 - c) It calls the next function in the program.
 - d) It prints the value of the next variable.
 - e) It loads the next program into the debugger.

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- In the gdb debugger, what does next do?
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void g(int x, int y)

z = f(x) + 2*y;return z;

int z;

Quiz: Question 9

Given the following code fragment, which of the following statements are true? double f(int i);

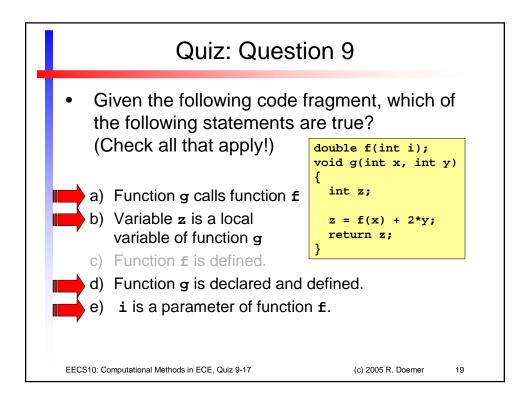
(Check all that apply!)

- a) Function g calls function £
- b) Variable z is a local variable of function q
- c) Function £ is defined.
- d) Function g is declared and defined.
- e) i is a parameter of function f.

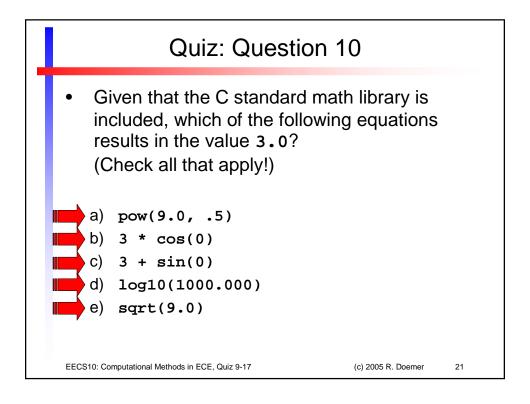
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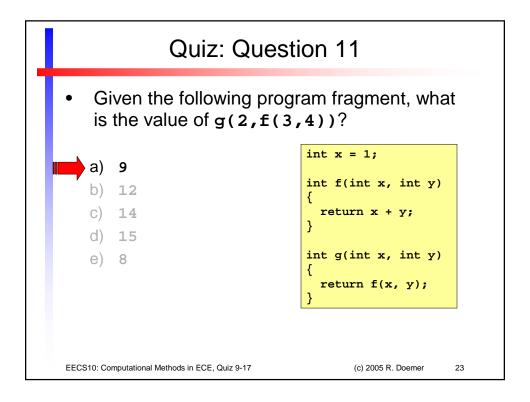
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```
Quiz: Question 10
Given that the C standard math library is included, which of the following equations results in the value 3.0? (Check all that apply!)
a) pow(9.0, .5)
b) 3 * cos(0)
c) 3 + sin(0)
d) log10(1000.000)
e) sqrt(9.0)
```



```
Quiz: Question 11
   Given the following program fragment, what
   is the value of g(2,f(3,4))?
                                  int x = 1;
   a) 9
                                  int f(int x, int y)
   b) 12
   c) 14
                                    return x + y;
   d) 15
                                  int g(int x, int y)
   e)
      8
                                    return f(x, y);
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```



What is output by the following program fragment?

```
a) EECS00 1
```

b) EECs100

c) **E E**

d) EECS10 C

e) EECS C

```
char s[] = "EECS10";
s[4] = 0;
printf("%s %c", s, s[2]);
```

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