

Quiz 5

Due Oct 12 at 4:50pm **Points** 20 **Questions** 10

Available Oct 12 at 3pm - Oct 12 at 4:50pm about 2 hours **Time Limit** 15 Minutes

Instructions

Please answer the following questions. There is a 15 minute time limit. Ch 5

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	6 minutes	18 out of 20

Score for this quiz: **18** out of 20

Submitted Oct 12 at 3:53pm

This attempt took 6 minutes.

Question 1

2 / 2 pts

How many lines of output will be displayed by the following program fragment? (NOTE: The inner loop initialization depends on the outer loop.)

```
for (i = 0; i < 5; i = i + 1)
    for (j = 0; j < i; j = j + 1)
        printf("%d %d\n", i, j);
```

☐ 0

☐ 9

☒ 10

☐ 5

Correct!

Question 2

2 / 2 pts

In a for statement, you may only increment or decrement the loop counter by one.

☐ True

☒ False

Correct!

Question 3

2 / 2 pts

What value is returned from the following function to x if the function call is:

```
int x = do_it(4);
```

```
int do_it(int i){  
    int x = 10;  
    for(; i<10; i+=2){  
        x += i;  
    }  
    return x;  
}
```

☐ 30

☐ 24

☒ 28

☐ 20

Correct!

Question 4

2 / 2 pts

The body of a while statement must cause the loop repetition condition to become false after a finite number of passes to prevent an infinite loop.

Correct!

☒ True

☐ False

Question 5

2 / 2 pts

Which expression is logically equivalent to the following condition:

x is either equal to 10 or not greater than 5

☐ $x = 10 \parallel !x > 5$

☐ $x == 10 \parallel !x > 5$

☐ $x = 10 \parallel !(x > 5)$

☒ $x == 10 \parallel x \leq 5$

Correct!

Question 6

2 / 2 pts

Loops that terminate upon scanning a special input value are called _____ loops.

☒ sentinel-controlled

☐ infinite

☐ end-file

☐ standard

Correct!

Question 7

0 / 2 pts

The body of a for statement might not be executed at all.

Correct Answer

☐ True

You Answered

☒ False

Question 8

2 / 2 pts

The loop that follows displays 29 lines of output.

```
for (i = 0; i < 30; i = i + 1)
    printf("%d\n", i);
```

☐ True

☒ False

Correct!

Question 9

2 / 2 pts

The loop repetition condition of a for statement is tested at the end of each pass.

☐ True

☒ False

Correct!

Question 10

2 / 2 pts

The expression

$x *= i + j / y;$

is equivalent to _____.

☐ $x = (x * i) + j / y;$

☐ $x = (x * i + j) / y;$

☒ $x = x * (i + j / y);$

☐ $x = x * i + j / y;$

Correct!

Quiz Score: **18** out of 20