Quiz #4

⚠ This is a preview of the published version of the quiz

Started: Feb 14 at 1:25pm
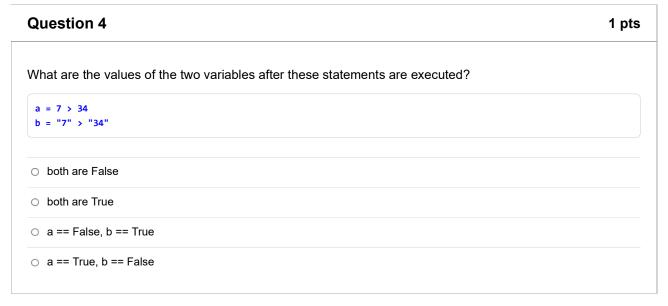
Quiz Instructions

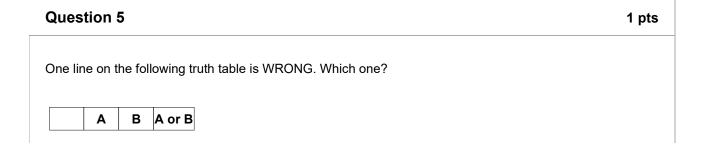Quiz #4

Question 1   **1 pts**

Which of the following are absolutely required in an *if* statement?

○ a test condition

○ a colon (:) after the test condition

○ at least one statement in the "block" of code following the colon

○ an else clause

○ a, b and c are all required, but d is optional

Question 2   **1 pts**

What will be displayed by the following code:

```
a = 5
b = 3
c = 2
x = 0
if a > c:
    x = x + 1
elif b < c:
    x = x + 2
else:
    x = x + 4
print(x)
```

○ 0

○ 1

○ 2

○ 4

○ 5

Question 3

1 pts

What will be displayed by the following code:

```
a = 5
b = 3
c = 2
x = 0
if a > c:
    x = x + 1
if b < c:
    x = x + 2
else:
    x = x + 4
print(x)
```

○ 0

○ 1

○ 2

○ 4

○ 5

Question 4

1 pts

What are the values of the two variables after these statements are executed?

```
a = 7 > 34
b = "7" > "34"
```

○ both are False

○ both are True

○ a == False, b == True

○ a == True, b == False

Question 5

1 pts

One line on the following truth table is WRONG. Which one?

	A	B	A or B

line 1	**False**	**False**	**False**
line 2	**False**	**True**	**False**
line 3	**True**	**False**	**True**
line 4	**True**	**True**	**True**

- ○ line 1
- ○ line 2
- ○ line 3
- ○ line 4

Question 6   **1 pts**

What value of x will cause the following expression to evaluate to _True_.

```
x > 5 and not (x < 9)
```

- ○ x = 12
- ○ x = 7
- ○ x = 3
- ○ No numeric value for x will make this expression True
- ○ Any numeric value for x will make this expression True

Question 7   **1 pts**

What value of x will cause the following expression to evaluate to _False_.

```
x > 5 or x < 9
```

- ○ x = 5
- ○ x = 9
- ○ x = 10
- ○ No numeric value for x will make this expression False
- ○ Any numeric value for x will make this expression False

Question 8

1 pts

Which of the following is a valid logical expression that tests to see if a number is in the range between 0 and 1, including 0 but not including 1?

○ num <= 0 or num > 1

○ 1 >= num and num > 0

○ num < 1 and num >= 0

○ num >= 0 or num < 1

Question 9

1 pts

What does the following code display? (Careful!)

```
x = 0
word = 'hello'
if word == 'Hello':
    x = x + 5
else:
    x = 17
print(x)
```

○ 0

○ 5

○ 17

○ 22

Question 10

1 pts

Given these two assignments:

```
word = 'apple'
phrase = 'banana'
```

Which expression is True?

○ word == phrase

○ word < 'word'

○ 'word' < word

○ phrase < word

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