

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

Not saved

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