

Feedback — Midterm Exam

[Help](#)

You submitted this quiz on **Thu 17 Apr 2014 10:18 AM MST**. You got a score of **19.00** out of **20.00**. You can [attempt again](#), if you'd like.

This is the midterm exam. It is not due until the end of the class. But you should understand all this material by the end of week 6. You can re-take this exam up to 100 times and your highest score will be retained. So you can take this exam to help you study and check your knowledge retention. It is OK to use Python in an another window to check your answers during this exam.

Question 1

What would the following Python code sequence print out?

```
str = "hello there bob"
print str[4]
```

Your Answer	Score	Explanation
<input type="radio"/> o		
<input type="radio"/> hello		
<input checked="" type="radio"/> l	✖ 0.00	
<input type="radio"/> e		
<input type="radio"/> You would get an out-of-range error and the program would fail		
Total	0.00 / 1.00	

Question 2

What would the value of the following expression be:

$abc = 1 + 2 - 3 * 4 + 5 - 6 / 3$

Your Answer	Score	Explanation
<input type="radio"/> 0.9675		
<input type="radio"/> 42		
<input type="radio"/> 36		
<input type="radio"/> Zero		
<input checked="" type="radio"/> -6	✓ 1.00	
Total	1.00 / 1.00	

Question 3

You type in the following Python code and it tells you that you have a syntax error - what is wrong?

```
x = 12
if x < 5:
    print "smaller"
else:
    print "bigger"


print "all done"
```

Your Answer	Score	Explanation
<input type="radio"/> There should be a semicolon on the "x=5" statement		
<input type="radio"/> There should not be a blank line after print "bigger"		
<input type="radio"/> print "bigger" needs to start in column 1		
<input checked="" type="radio"/> print "smaller" needs to be indented	✓ 1.00	
Total	1.00 / 1.00	

Question 4

What will the following Python program print out:

```
def fred():  
    print "Zap"  
  
def jane():  
    print "ABC"  
  
jane()  
fred()  
jane()
```

Your Answer	Score	Explanation
<input type="radio"/> ABC Zap jane		
<input type="radio"/> Zap ABC Zap		
<input type="radio"/> Zap Zap Zap		
<input checked="" type="radio"/> ABC Zap ABC	 1.00	
Total	1.00 / 1.00	

Question 5

Where in the computer is a variable such as "x" stored?

x = 123

Your Answer	Score	Explanation
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<input type="radio"/> Data Warehouse		
--------------------------------------	--	--

<input checked="" type="radio"/> Main Memory	✓ 1.00	
--	--------	--

<input type="radio"/> The Cloud		
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<input type="radio"/> Central Processing Unit		
---	--	--

Total	1.00 / 1.00	
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Question 6

For the following Python program, what will it print out?

```
x = -1
for value in [3, 41, 12, 9, 74, 15] :
    if value > x :
        x = value
print x
```

Your Answer	Score	Explanation
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<input checked="" type="radio"/> 74	✓ 1.00	
-------------------------------------	--------	--

<input type="radio"/> 12		
--------------------------	--	--

<input type="radio"/> 3		
-------------------------	--	--

<input type="radio"/> -1		
--------------------------	--	--

Total	1.00 / 1.00	
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Question 7

In the following Python code:

```
x = "Hello"  
print x  
print type(x)
```

Produces the following output:

```
Hello  
<type 'str'>
```

What is the purpose of type() - what is the output of type telling us?

Your Answer	Score	Explanation
<input type="radio"/> It is telling us that the variable x is ready to be reclaimed as part of a "garbage collection" operation to free up memory.		
<input checked="" type="radio"/> It is telling us that the data stored in the variable x is a string	✓ 1.00	
<input type="radio"/> It indicates that the variable x contains a "strong" value which cannot be overridden.		
<input type="radio"/> It is telling us the primary key that will be used to look up the contents of x in a database.		
Total	1.00 / 1.00	

Question 8

For this Python program snippet:

```
total = 0  
count = 0  
for abc in range(10):  
    total = total + abc  
    count = count + 1  
ave = total / count
```

print ave

Which of the variables is the "iteration" variable?

Your Answer	Score	Explanation
<input type="radio"/> total		
<input type="radio"/> ave		
<input type="radio"/> count		
<input checked="" type="radio"/> abc	✓ 1.00	
Total	1.00 / 1.00	

Question 9

What will the following Python program print out? (This is a bit tricky so look carefully).

```
def hello():  
    print "Hello"  
    print "There"
```

```
x = 10  
x = x + 1
```

Your Answer	Score	Explanation
<input type="radio"/> Hello There 10 11		
<input checked="" type="radio"/> Nothing at all	✓ 1.00	
<input type="radio"/> Hello There		
<input type="radio"/> Hello There		
Total	1.00 / 1.00	

Question 10

You develop the following program in Python:

```
f = int(raw_input("Enter:"))
c = ( f - 32 ) * ( 5 / 9 )
print "Celsius",c
```

And when you run it three times you get the following output:

```
Enter:212
Celsius 0
```

```
Enter:72
Celsius 0
```

```
Enter:15
Celsius 0
```

What part of the program is causing the output to always be zero?

Your Answer	Score	Explanation
<input type="radio"/> Using single character variables		
<input type="radio"/> (f - 32)		
<input checked="" type="radio"/> (5 / 9)	✓ 1.00	
<input type="radio"/> Using double quotes for all the strings		
Total	1.00 / 1.00	

Question 11

For the following Python program, what will it print out?

```
x = 0
for value in [3, 41, 12, 9, 74, 15] :
```

```
if value < 10 :  
    x = x + value  
print x
```

Your Answer	Score	Explanation
<input type="radio"/> 3		
<input type="radio"/> 74		
<input checked="" type="radio"/> 12	✓ 1.00	
<input type="radio"/> 9		
Total	1.00 / 1.00	

Question 12

What would the following Python code print out?

```
fline = "blah blah"  
  
if len(fline) > 1 :  
    print "More than one"  
    if fline[0] == "h" :  
        print "Has an h"  
print "All done"
```

Your Answer	Score	Explanation
<input type="radio"/> More than one Has an h All done		
<input type="radio"/> All done		
<input type="radio"/> blah blah --- Traceback ---		
<input type="radio"/> Nothing will print		
<input checked="" type="radio"/> More than one	✓ 1.00	

All done

☐ Has an h
All done

Total 1.00 / 1.00

Question 13

What is the value of the following expression:

$abc = 1 - 2 + 3 * 4 - 5 - 6 / 3$

Your Answer	Score	Explanation
<input checked="" type="radio"/> 4	✓ 1.00	
<input type="radio"/> 18		
<input type="radio"/> 42		
<input type="radio"/> 12		
Total	1.00 / 1.00	

Question 14

This Python program is supposed to compute the average of a list of numbers but the output is always wrong. Which line is in error?

```
total = 0
count = 0
for abc in [3, 41, 12, 9, 74, 15] :
    total = total + abc
    count = 1
ave = total / count
print ave
```

Your Answer	Score	Explanation
<input checked="" type="radio"/> count = 1	✓ 1.00	
<input type="radio"/> total = 0		
<input type="radio"/> count = 0		
<input type="radio"/> total = total + abc		
Total	1.00 / 1.00	

Question 15

For the following Python program, what will it print out?

```
x = -1
for value in [3, 41, 12, 9, 74, 15] :
    if value < x :
        x = value
print x
```

Your Answer	Score	Explanation
<input checked="" type="radio"/> -1	✓ 1.00	
<input type="radio"/> 74		
<input type="radio"/> 3		
<input type="radio"/> 15		
Total	1.00 / 1.00	

Question 16

What will the following Python program print out:

```
def fred():
```

```
print "Zap"
```

```
def jane():  
    print "ABC"
```

```
fred()  
jane()  
fred()
```

Your Answer	Score	Explanation
<input type="radio"/> ZZZ fred		
<input type="radio"/> Zap ABC fred jane fred		
<input checked="" type="radio"/> Zap ABC Zap	1.00	
<input type="radio"/> ZABCZ		
Total	1.00 / 1.00	



Question 17

What would the following Python code sequence print?

```
str = "hello there bob"  
print str[0]
```

☐ there☐ e

☒ h



1.00

☐ hello

Total

1.00 / 1.00

Question 18

What part of a computer is actually doing the addition and subtraction in the following statement:

```
x = 1 + 2 - 3 * 4 / 5 + 6;
```

Your Answer

Score

Explanation

☐ Cloud

☐ Output Devices

☐ Disk Drive

☒ Central Processing Unit



1.00

Total

1.00 / 1.00

Question 19

Which of the following lines will never print out regardless of the value for x?

```
if x < 2 :  
    print "Below 2"  
elif x < 0 :  
    print "Negative"  
else :  
    print "Something else"
```

Your Answer

Score

Explanation

☐ Below 2

☐ Something else

☒ Negative



1.00

☐ All three lines will print all the time

Total

1.00 / 1.00

Question 20

What will the following Python program print out?

```
print "hello world"
```

Your Answer

Score

Explanation

☐ world

☐ hello

☐ 42

☒ hello world



1.00

Total

1.00 / 1.00