PCEP-30-02Q&As

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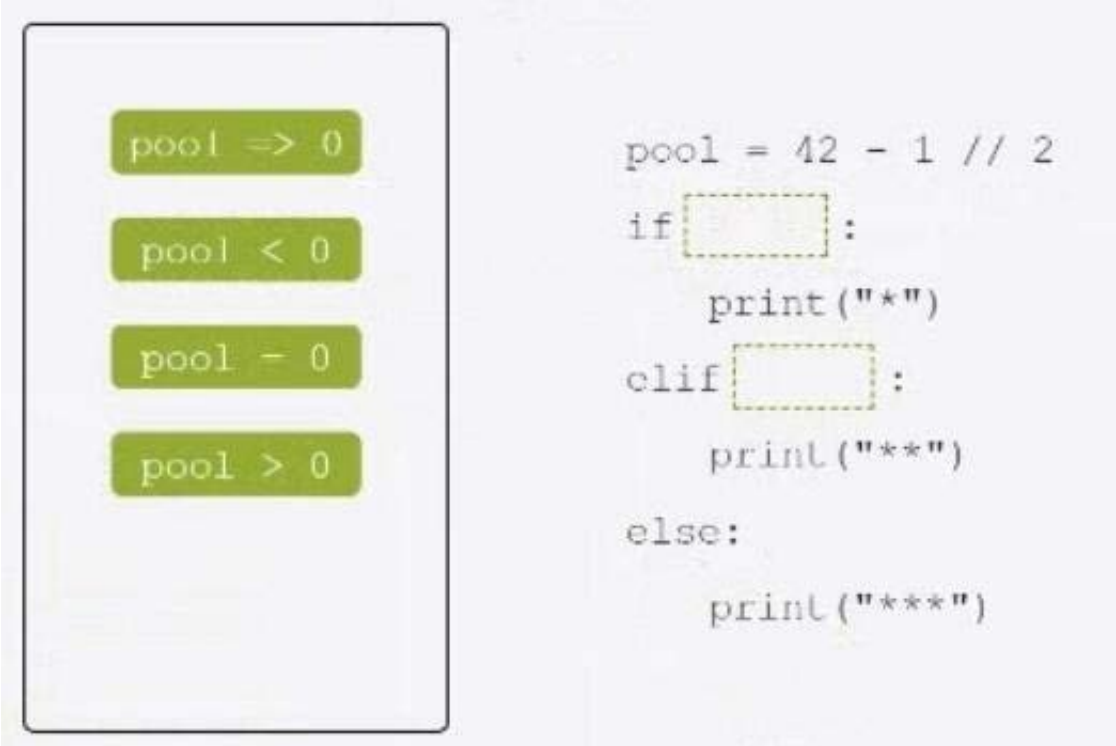
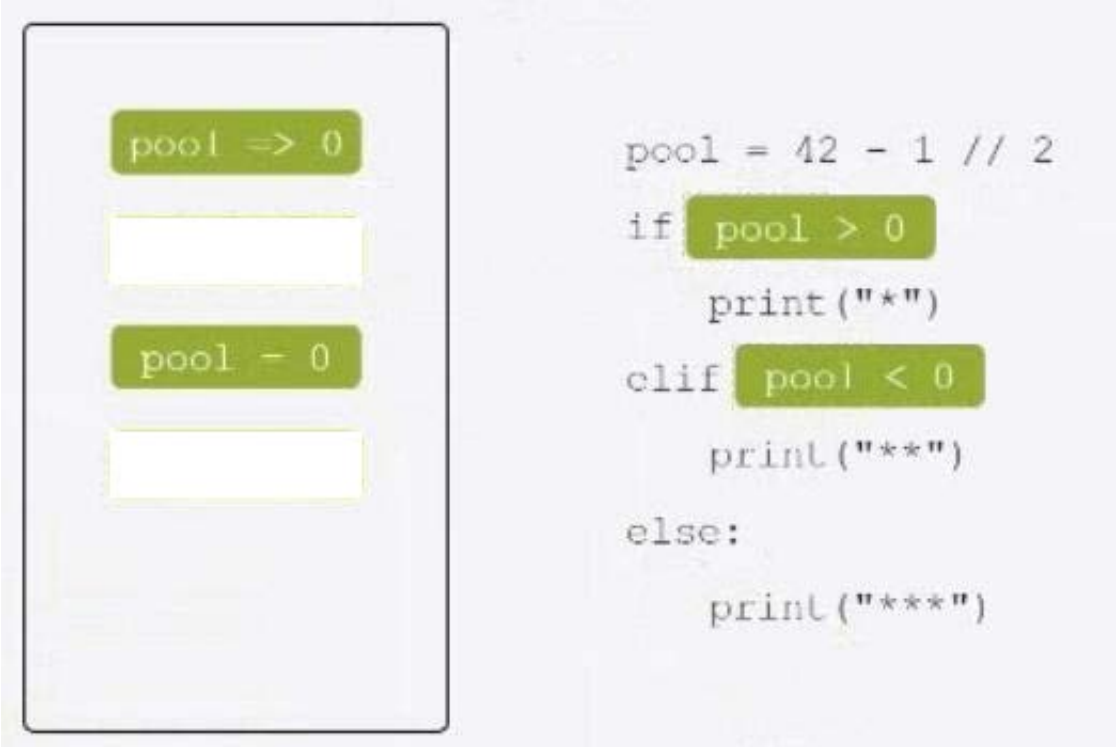
QUESTION 1

Drag and drop the conditional expressions to obtain a code which outputs * to the screen. (Note: some code boxes will not be used.)

Select and Place:



Correct Answer:



One possible way to drag and drop the conditional expressions to obtain a code which outputs * to the screen is:

if pool > 0:

print("*")

elif pool

print("**")

else:

print("***")

This code uses the if, elif, and else keywords to create a conditional statement that checks the value of the variable pool. Depending on whether the value is greater than, less than, or equal to zero, the code will print a different pattern of

asterisks to the screen.

The print function is used to display the output. The code is indented to show the blocks of code that belong to each condition. The code will output * if the value of pool is positive, ** if the value of pool is negative, and *** if the value of pool is

zero.

You can find more information about the conditional statements and the print function in Python in the following references:

[Python If … Else]

[Python Print Function]

[Python Basic Syntax]

QUESTION 2

You have the following le.

```
index.py:
from sys import argv
sum = 0
for i in range(2, len(argv)):
    sum += float(argv[i])
print(
    "The average score for {0} is {1:.2f}"
    .format(argv[1], sum/(len(argv)-2))
)
```

You want the following output: The average score for Peter is 200.00. Which command do you have to execute in the command line?

A. python index.py Peter 100

B. python index.py Peter 100 200 300

C. The code is erroneous.

D. python index.py Peter 100 200

Correct Answer: B

QUESTION 3

What is the expected output of the following code?

```
data = {'Peter': 30, 'Paul': 31}
print(list(data.keys()))
```

A. (\\'Peter\\': 30, \\'Paul\\': 31)

B. (\\'Peter\\', \\'Paul\\')

C. [\\'Peter\\': 30, \\'Paul\\': 31]

D. [\\'Peter\\', \\'Paul\\']

Correct Answer: D

QUESTION 4

What is the expected output of the following code?

```
def func(x=2, y=3):
    return x * y


print(func(y=2))  # 4
```

A. 4

B. The code is erroneous.

C. 6

D. 2

Correct Answer: A

QUESTION 5

What is the expected behavior of the following program?

```
try:
    print(5/0)
    # break
except:
    print("Sorry, something went wrong...")
# except (ValueError, ZeroDivisionError):
    # print("Too bad...")
```

A. The program will cause a ValueError exception and output a default error message.

B. The program will cause a SyntaxError exception.

C. The program will cause a ZeroDivisionError exception and output a default error message.

D. The program will cause a ValueError exception and output the following message: Too bad...

E. The program will raise an exception handled by the rst except block.

Correct Answer: B

QUESTION 6

The second assignment:

```
vals = [0, 1, 2]
vals[0], vals[1] = vals[1], vals[2]
```

A. extends the list

B. doesn\\'t change the list\\'s length

C. shortens the list

Correct Answer: B

QUESTION 7

A variable de ned outside a function:

A. may be read, but not written (something more is needed to do so)

B. may not be accessed in any way inside the function

C. may be freely accessed inside the function

Correct Answer: A

QUESTION 8

Insert the correct piece of code, so that the program produces the expected output. Expected output:

```
Andy
Brown
```

Code:

```
# insert code here
```

A. print(Andy\nBrown)

B. print("Andy Brown", end=" ")

C. print("Andy Brown", sep=" ")

D. print("Andy\nBrown")

Correct Answer: D

QUESTION 9

Consider the following code.

```
x = 42
y = 7
data = "I'm gonna make him an offer he can't refuse."

print(data.find('an') if data else None)   # 19
print(19 if None else x / y)               # 6.0
print(data.rfind('an') if data else None)  # 32
print(7 if len(data) > 19 else 6)          # 7
```

Which of the following expressions will evaluate to 19?

A. data.r nd(\\'an\\') if data else None

B. 19 if None else x / y

C. data. nd(\\'an\\') if data else None

D. 7 if len(data) > 19 else 6

Correct Answer: C

QUESTION 10

An alternative name for a data structure called a stack is:

A. LIFO

B. FIFO

C. FOLO

Correct Answer: A

QUESTION 11

The meaning of the positional parameter is determined by its:

A. appearance

B. position

C. name

Correct Answer: B

QUESTION 12

How many stars will the following snippet print to the monitor?

```
data = [[x for x in range(y)] for y in range(3)]
print(data)          # [[], [0], [0, 1]]

for d in data:
    print('d:', d)  # [] -> [0] -> [0, 1]
    if len(d) < 2:
        print('*')  # * *
```

A. three

B. zero

C. two

D. one

Correct Answer: C

QUESTION 13

The compiled Python bytecode is stored in les having names ending with:

A. py

B. pyb

C. pyc

D. pc

Correct Answer: C

QUESTION 14

Which of the following sentences is true?

```
str1 = 'Peter'
str2 = str1[:]
```

A. str1 and str2 are different (but equal) strings.

B. str1 and str2 are different names of the same strings.

C. str1 is longer than str2

D. str2 is longer than str1

Correct Answer: B

QUESTION 15

How many stars will the following snippet send to the console?

```
i = 2
while i >= 0:
    print("*")
    # *
    # *
    i -= 2
```

A. three

B. two

C. one

Correct Answer: B

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