98-381 Q&As

Introduction to Programming Using Python

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QUESTION 1

HOTSPOT

You are developing a Python application for your company.

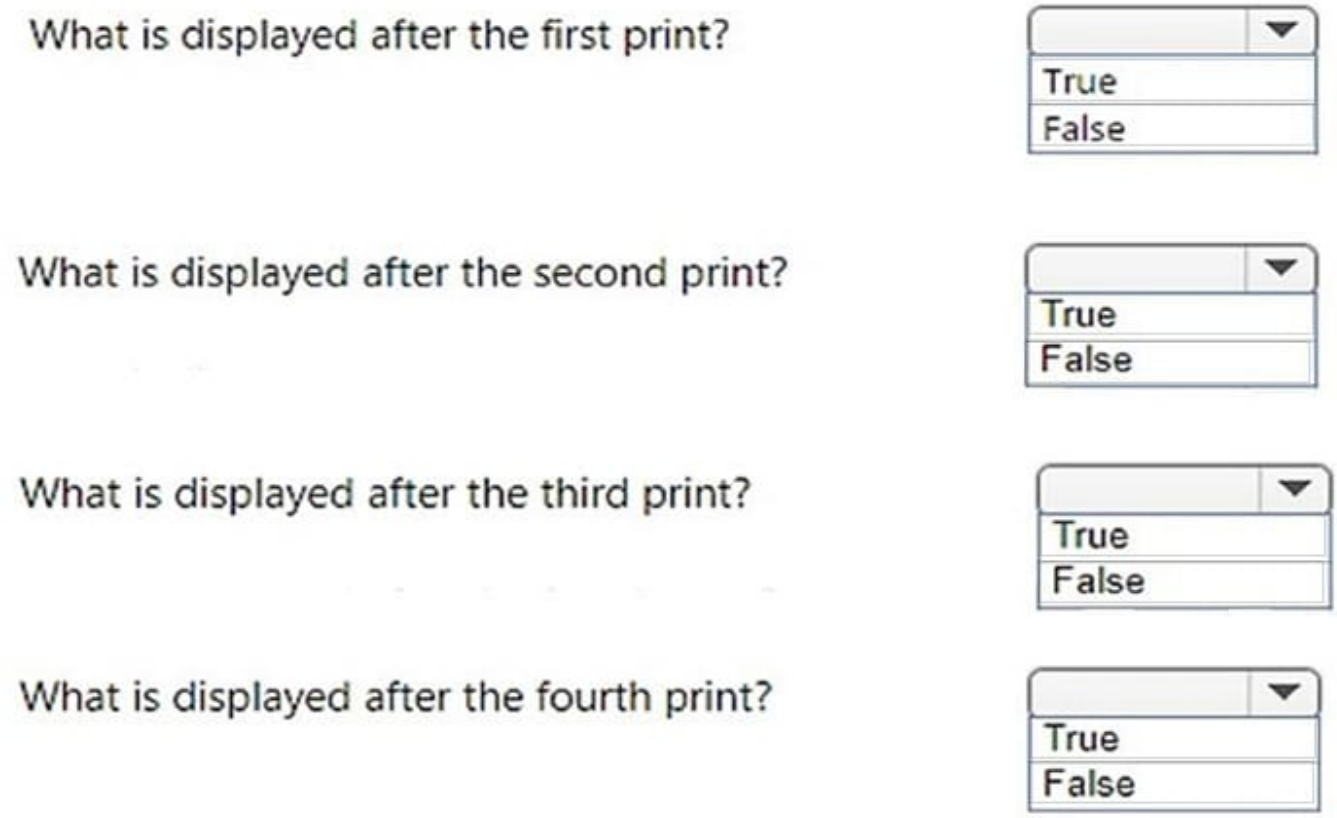
You write the following code:

```
numList = [1,2,3,4,5]
alphaList = ["a","b","c","d","e"]
print(numList is alphaList)
print(numList == alphaList)
numList = alphaList
print(numList is alphaList)
print(numList == alphaList)
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

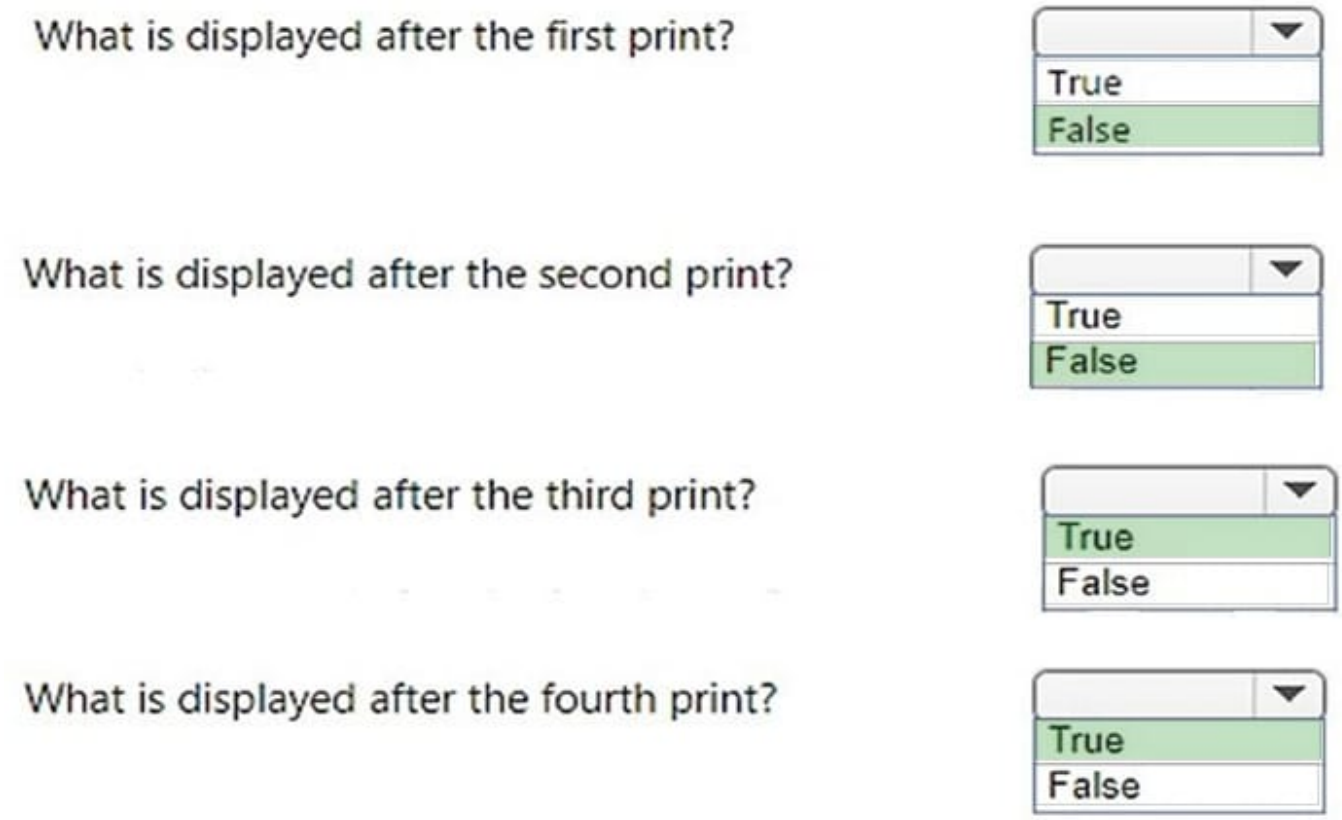
Hot Area:

Answer Area



Correct Answer:

Answer Area



QUESTION 2

HOTSPOT

During school holidays, you volunteer to explain some basic programming concepts to younger siblings. You want to introduce the concept of data types in Python. You create the following three code segments:

```
# Code segment 1
x1 = "20"
y1 = 3
a = x1 * y1

# Code segment 2
x2 = 6
y2 = 4
b = x2 / y2

# Code segment 3
x3 = 2.5
y3 = 1
c = x3 / y3
```

You need to evaluate the code segments.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
After executing code segment 1, the data type of variable `a` is `str`.	○	○
After executing code segment 2, the data type of variable `b` is `float`.	○	○
After executing code segment 3, the data type of variable `c` is `int`.	○	○

Correct Answer:

Answer Area

	Yes	No
After executing code segment 1, the data type of variable `a` is `str`.	○	●
After executing code segment 2, the data type of variable `b` is `float`.	●	○
After executing code segment 3, the data type of variable `c` is `int`.	○	●

QUESTION 3

HOTSPOT

The ABC organics company needs a simple program that their call center will use to enter survey data for a new coffee variety.

The program must accept input and return the average rating based on a five-star scale. The output must be rounded to two decimal places.

You need to complete the code to meet the requirements.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
sum = count = done = 0
average = 0.0

while (done != -1):

    rating = [dropdown]

  if rating == -1:
      break
  sum+=rating
  count+=1
```

Options for rating:

- print("Enter next rating (1-5), -1 for done")
- float(input("Enter next rating (1-5), -1 for done"))
- input("Enter next rating (1-5), -1 for done")
- input "Enter next rating (1-5), -1 for done")

```
average = float(sum/count)
```

[dropdown] + [dropdown]

Options for the first dropdown:

- output("The average star rating for NetVerZleep coffee is: "
- console.input("The average star rating for the new coffee is: "
- printline("The average star rating for the new coffee is: "
- print("The average star rating for the new coffee is: "

Options for the second dropdown:

- format(average, '.2f'))
- format(average, '.2d'))
- {average, '.2f'}
- format.average.{2d}

Correct Answer:

Answer Area

```
sum = count = done = 0
average = 0.0

while (done != -1):

    rating =

if rating == -1:
    break
sum+=rating
count+=1
```

- print("Enter next rating (1-5), -1 for done")
- float(input("Enter next rating (1-5), -1 for done"))
- input("Enter next rating (1-5), -1 for done")
- input "Enter next rating (1-5), -1 for done")

```
average = float(sum/count)
```

- output("The average star rating for NetVerZleep coffee is: "
- console.input("The average star rating for the new coffee is: "
- printline("The average star rating for the new coffee is: "
- print("The average star rating for the new coffee is: "

+

- format(average, '.2f'))
- format(average, '.2d'))
- {average, '.2f'}
- format.average.{2d}

References: https://www.w3resource.com/python/python-format.php#num

QUESTION 4

HOTSPOT

You are designing a decision structure to convert a student\\'s numeric grade to a letter grade. The program must assign a letter grade as specified in the following table:

Percentage range	Letter grade
90 through 100	A
80 through 89	B
70 through 79	C
65 through 69	D
0 through 64	F

For example, if the user enters a 90, the output should be, “Your letter grade is A”. Likewise, if a user enters an 89, the

output should be “Your letter grade is B”. How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

```
#Letter Grade Converter

grade = int(input("Enter a numeric grade"))

[ if grade <= 90: | if grade >= 90: | elif grade > 90: | elif grade >= 90: ]
    letter_grade = 'A'
[ if grade > 80: | if grade >= 80: | elif grade > 80: | elif grade >= 80: ]
    letter_grade = 'B'
[ if grade > 70: | if grade >= 70: | elif grade > 70: | elif grade >= 70: ]
    letter_grade = 'C'
[ if grade > 65: | if grade >= 65: | elif grade > 65: | elif grade >= 65: ]
    letter_grade = 'D'
else:
    letter_grade = 'F'
```

Correct Answer:

```
#Letter Grade Converter

grade = int(input("Enter a numeric grade"))

[ if grade <= 90: | if grade >= 90: | elif grade > 90: | elif grade >= 90: ]
    letter_grade = 'A'
[ if grade > 80: | if grade >= 80: | elif grade > 80: | elif grade >= 80: ]
    letter_grade = 'B'
[ if grade > 70: | if grade >= 70: | elif grade > 70: | elif grade >= 70: ]
    letter_grade = 'C'
[ if grade > 65: | if grade >= 65: | elif grade > 65: | elif grade >= 65: ]
    letter_grade = 'D'
else:
    letter_grade = 'F'
```

QUESTION 5

The ABC company has hired you as an intern on the coding team that creates e-commerce applications.

You must write a script that asks the user for a value. The value must be used as a whole number in a calculation, even if the user enters a decimal value.

You need to write the code to meet the requirements.

Which code segment should you use?

A. totalItems = input("How many items would you like?")

B. totalItems = float(input("How many items would you like?"))

C. totalItems = str(input("How many items would you like?"))

D. totalItems = int(input("How many items would you like?"))

Correct Answer: B

References: http://anh.cs.luc.edu/python/hands-on/3.1/handsonHtml/io.html

QUESTION 6

You develop a Python application for your company.

You want to add notes to your code so other team members will understand it.

What should you do?

A. Place the notes after the # sign on any line

B. Place the notes after the last line of code separated by a blank line

C. Place the notes before the first line of code separated by a blank line

D. Place the notes inside of parentheses on any time

Correct Answer: A

References: http://www.pythonforbeginners.com/comments/comments-in-python

QUESTION 7

You develop a Python application for your company.

A list named employees contains 200 employee names, the last five being company management. You need to slice the list to display all employees excluding management.

Which two code segments should you use? Each correct answer presents a complete solution. (Choose two.)

A. employees [1:-4]

B. employees [:-5]

C. employees [1:-5]

D. employees [0:-4]

E. employees [0:-5]

Correct Answer: BE

References: https://www.w3resource.com/python/python-list.php#slice

QUESTION 8

HOTSPOT

You create the following program to locate a conference room and display the room name. Line numbers are included for reference only.

```
01 rooms = {1: 'Foyer', 2: 'Conference Room'}
02 room = input('Enter the room number: ')
03 if not room in rooms:
04     print('Room does not exist.')
05 else:
06     print("The room name is " + rooms[room])
```

Colleagues report that the program sometimes produces incorrect results.

You need to troubleshoot the program. Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:

Answer Area

Correct Answer:

Answer Area

QUESTION 9

DRAG DROP

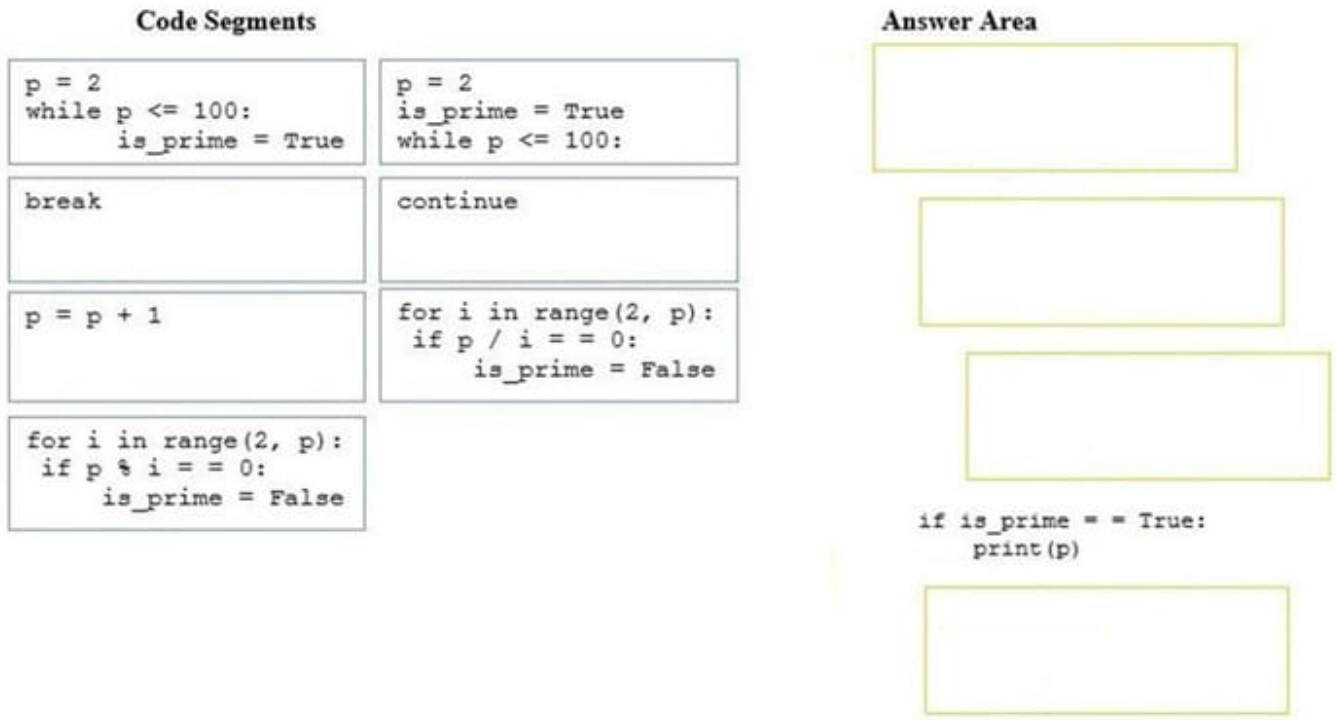
You are building a Python program that displays all of the prime numbers from 2 to 100.

How should you complete the code? To answer, drag the appropriate code segments to the correct location. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to

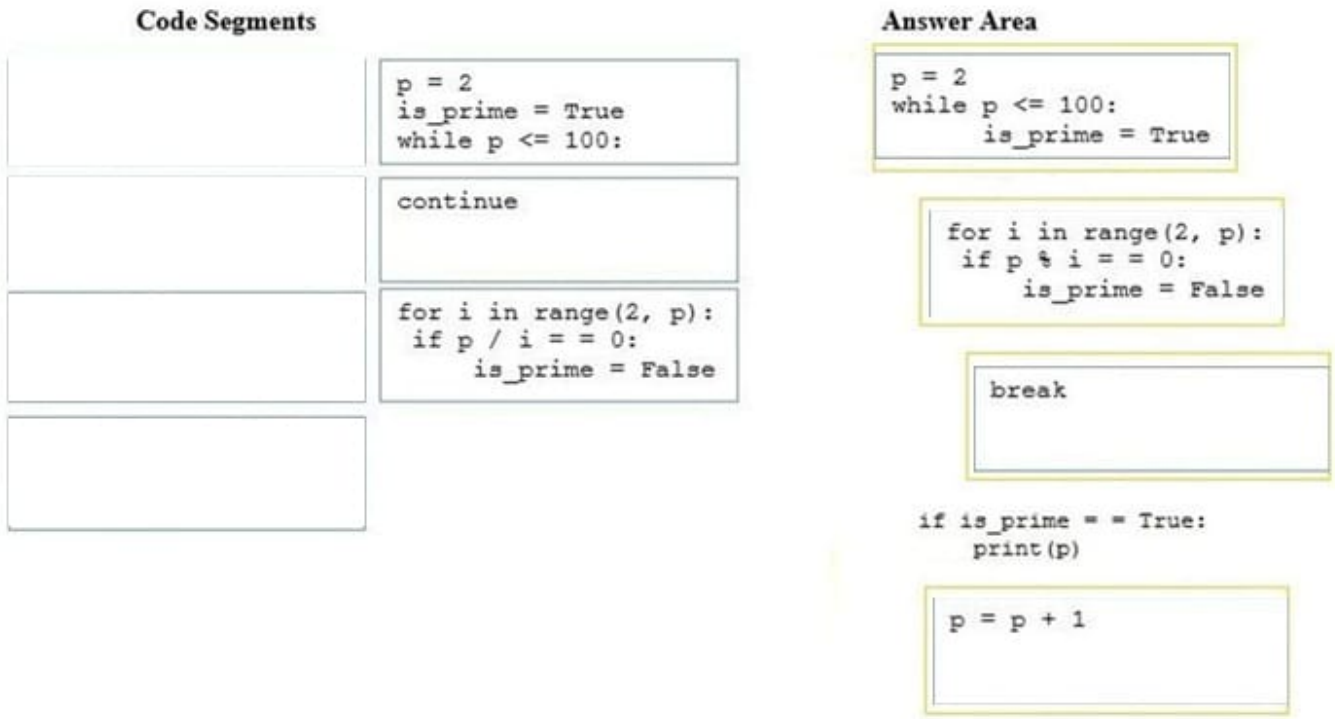
view content.

NOTE: Each correct selection is worth one point.

Select and Place:



Correct Answer:



References: https://docs.python.org/3.1/tutorial/inputoutput.html https://stackoverflow.com/questions/11619942/print-series-of-prime-numbers-in-python https://www.programiz.com/python-programming/examples/prime-number-intervals

QUESTION 10

HOTSPOT

You find errors while evaluating the following code. Line numbers are included for reference only.

```
01 numbers = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
02 index = 0
03 while (index < 10)
04     print(numbers[index])
05
06     if numbers(index) = 6
07         break
08     else :
09         index += 1
```

You need to correct the code at line 03 and line 06.

How should you correct the code? Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Which code segment should you use at line 03?

- while (index < 10) :
- while [index < 10]
- while (index < 5) :
- while [index < 5]

Which code segment should you use at line 06?

- if numbers[index] == 6
- if numbers[index] == 6 :
- if numbers(index) = 6 :
- if numbers(index) != 6

Correct Answer:

Answer Area

Which code segment should you use at line 03?

- while (index < 10) :
- while [index < 10]
- while (index < 5) :
- while [index < 5]

Which code segment should you use at line 06?

- if numbers[index] == 6
- if numbers[index] == 6 :
- if numbers(index) = 6 :
- if numbers(index) != 6