

## 98-381<sup>Q&As</sup>

Introduction to Programming Using Python

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## QUESTION 1

You are creating a function that reads a data file and prints each line of the file. You write the following code. Line numbers are included for reference only.

```
01 import os
02 def read_file(file):
03     line = None
04     if os.path.isfile(file):
05         data = open(file, 'r')
06         while line != '':
07             line = data.readline()
08             print(line)
```

The code attempts to read the file even if the file does not exist.

You need to correct the code.

Which three lines have indentation problems? Each correct answer presents part of the solution. (Choose three.)

- A. Line 01
- B. Line 02
- C. Line 03
- D. Line 04
- E. Line 05
- F. Line 06
- G. Line 07
- H. Line 08

Correct Answer: FGH

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## QUESTION 2

### DRAG DROP

The ABC company is converting an existing application to Python. You are creating documentation that will be used by several interns who are working on the team.

You need to ensure that arithmetic expressions are coded correctly.

What is the correct order of operations for the six classes of operations ordered from first to last in order of precedence? To answer, move all operations from the list of operations to the answer area and arrange them in the correct order.

Select and Place:

**Operations**

Parenthesis

Exponents

And

Multiplication and Division

Addition and Subtraction

Unary positive, negative, not

**Answer Area**

Correct Answer:

**Operations****Answer Area**

Parenthesis

Exponents

Unary positive, negative, not

Multiplication and Division

Addition and Subtraction

And

References: [http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op\\_precedence.html](http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op_precedence.html)

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**QUESTION 3**

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 4

### 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:

#### Code Segments

```
p = 2
while p <= 100:
    is_prime = True
```

```
break
```

```
p = p + 1
```

```
for i in range(2, p):
    if p % i == 0:
        is_prime = False
```

```
p = 2
is_prime = True
while p <= 100:
```

```
continue
```

```
for i in range(2, p):
    if p / i == 0:
        is_prime = False
```

#### Answer Area

```
if is_prime == True:
    print(p)
```

Correct Answer:



## Code Segments

```
p = 2
is_prime = True
while p <= 100:
```

```
    continue
```

```
    for i in range(2, p):
        if p / i == 0:
            is_prime = False
```

## Answer Area

```
p = 2
while p <= 100:
    is_prime = True
```

```
    for i in range(2, p):
        if p % i == 0:
            is_prime = False
```

```
        break
```

```
    if is_prime == True:
        print(p)
```

```
    p = p + 1
```

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 5

### HOTSPOT

You develop a Python application for your company.

You have the following code. Line numbers are included for reference only.

```
01 def main(a,b,c,d):
02     value = a+b*c-d
03     return value
```

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

Which part of the expression will be evaluated first?

a+b
b*c
c-d

Which operation will be evaluated second?

addition
subtraction

Which expression is equivalent to the expression in the function?

(a+b) * (c-d)
(a + (b*c)) - d
a + ((b * c) - d)

Correct Answer:

## Answer Area

Which part of the expression will be evaluated first?

a+b
b*c
c-d

Which operation will be evaluated second?

addition
subtraction

Which expression is equivalent to the expression in the function?

(a+b) * (c-d)
(a + (b*c)) - d
a + ((b * c) - d)

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