



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

Introduction to Programming Using Python

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### QUESTION 1

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
```

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

```
break
```

```
continue
```

```
p = p + 1
```

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

```
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 2

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 3

#### HOTSPOT

You are developing a Python application for an online product distribution company.

You need the program to iterate through a list of products and escape when a target product ID is found.

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

```
productIdList = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]  
index = 0
```

	▼
while	
for	
if	
break	

(index < 10) :

```
print(productIdList[index])
```

```
if productIdList[index] == 6 :
```

	▼
while	
for	
if	
break	

```
else :
```

Correct Answer:



## Answer Area

```
productIdList = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]  
index = 0
```

	▼
while	
for	
if	
break	

(index < 10) :

```
print(productIdList[index])
```

```
if productIdList[index] == 6 :
```

	▼
while	
for	
if	
break	

```
else :
```

References: <https://www.w3resource.com/python/python-while-loop.php>

### QUESTION 4

#### HOTSPOT

You are developing a Python application for an online game.

You need to create a function that meets the following criteria: The function is named `update_score` The function receives the current score and a value The function adds the value to the current score The function returns the new score



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

Hot Area:

### Answer Area

<code>update_score</code>	<code>(current, value):</code>
<code>def update_score</code>	<code>():</code>
<code>return update_score</code>	<code>(current, value)</code>
	<code>()</code>

`current += value`

<code>pass current</code>
<code>return current</code>
<code>return</code>
<code>pass</code>

Correct Answer:

### Answer Area

<code>update_score</code>	<code>(current, value):</code>
<code>def update_score</code>	<code>():</code>
<code>return update_score</code>	<code>(current, value)</code>
	<code>()</code>

`current += value`

<code>pass current</code>
<code>return current</code>
<code>return</code>
<code>pass</code>

### QUESTION 5

DRAG DROP

You are writing a Python program. The program collects customer data and stores it in a database.



The program handles a wide variety of data.

You need to ensure that the program handles the data correctly so that it can be stored in the database correctly.

Match the data type to the code segment. To answer, drag the appropriate data type from the column on the left to its code segment on the right. Each data type may be used once, more than once, or not at all.

Select and Place:

### Operations

bool float int str

### Answer Area

age = 2

minor = False

name = "Contoso"

weight = 123.5

zip = "81000"

Correct Answer:

### Operations

bool float int str

### Answer Area

int  
bool  
str  
float  
str

age = 2

minor = False

name = "Contoso"

weight = 123.5

zip = "81000"

References: <https://www.w3resource.com/python/python-data-type.php>

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