98-381^{Q&As}

Introduction to Programming Using Python

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QUESTION 1

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

Which two data types are stored in the rooms list at line 01?

| bool and string |
| float and bool |
| int and string |
| float and int |

What is the data type of room at line 02?

| bool |
| float |
| int |
| string |

Why does line 03 fail to find the rooms?

| Invalid syntax |
| Mismatched data type(s) |
| Misnamed variable(s) |

Correct Answer:

Answer Area

Which two data types are stored in the `rooms` list at line 01?

bool and string
float and bool
int and string
float and int

What is the data type of `room` at line 02?

bool
float
int
string

Why does line 03 fail to find the rooms?

Invalid syntax
Mismatched data type(s)
Misnamed variable(s)

QUESTION 2

DRAG DROP

Match the data type to the type operations.

To answer, drag the appropriate data type to the correct type operation. Each data type may be used once, more than once, or not at all.

Select and Place:

Data Types

int	float	str	bool

Answer Area

type (+1E10)

type (5.0)

type ("True")

type (False)

Correct Answer:

Data Types

| int | float | str | bool |

Answer Area

type (+1E10)   float

type (5.0)   float

type ("True")   str

type (False)   bool

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

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QUESTION 3

You are writing code that generates a random integer with a minimum value of 5 and a maximum value of 11. Which two functions should you use? Each correct answer presents a complete solution. (Choose two.)

A. random.randint(5, 12)

B. random.randint(5, 11)

C. random.randrange(5, 12, 1)

D. random.randrange(5, 11, 1)

Correct Answer: BC

References: https://docs.python.org/3/library/random.html#

QUESTION 4

Evaluate the following Python arithmetic expression:

```
(3*(1+2)**2 - (2**2)*3)
```

What is the result?

A. 3

B. 13

C. 15

D. 69

Correct Answer: C

References: http://www.mathcs.emory.edu/~valerie/courses/fall10/155/resources/op_precedence.html

QUESTION 5

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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