

Evaluation quiz correction

Evaluation Quiz: Evaluation #4

Date: 2022-07-25

Status: Done

Duration: 38 minutes

Score: 52.78%

"I don't know": 3

Success: 8

Fail: 7

Responses

0. What do these lines print?

Score: 0.0

```
>>> class User:
>>>     id = 89
>>>     name = "no name"
>>>     __password = None
>>>
>>>     def __init__(self, new_name=None):
>>>         self.is_new = True
>>>         if new_name is not None:
>>>             self.name = new_name
>>>
>>> u = User()
```

```
>>> u.name
```

- ☐ name
- ☒ **None**
- ☐ 'John'
- ☐ **'no name'**
- ☐ I don't know

1. What data structure is the foundation of a Python dictionary or set?

Score: 0.5

- ☒ **Hash Table**
- ☐ Stack
- ☐ Queue
- ☐ Binary Tree
- ☒ I don't know

2. What does the following Bash script do?

Score: 0.0

```
#!/usr/bin/env bash

var="Tech"
if [ -e "$var" ]
then
    if [ -f "$var" ]
    then
        echo "Betty"
    elif [ -d "$var" ]
    then
        echo "School"
    fi
fi
```

```
else
    echo "$var doesn't exist"
fi
```

- ☐ Checks if **Tech** exists, otherwise prints "Tech doesn't exist". If it exists and it's a file, print "Betty", otherwise if it's a directory, print "School".
- ☐ Checks if a file (inputted by the user) exists, otherwise prints "File doesn't exist". If it exists and it's a file, print "Betty", otherwise if it's a directory, print "School".
- ☒ Checks if **Tech** exists and prints "Tech exists"
- ☐ I don't know

3. Given this code:

Score: 0.5

```
struct point {
    int x;
    int y;
};
struct point my_point = { 3, 7 };
struct point *p = &my_point;
```

To set the member y of my variable my_point to 98, I can do (select all valid answers):

- ☐ **my_point.y = 98**
- ☐ my_point->y = 98
- ☐ p.y = 98
- ☐ **(*p).y = 98**
- ☐ **p->y = 98**
- ☒ I don't know

4. What is doc?

Score: 0.0

- ☐ The string documentation of an object (based on docstring)
- ☒ Prints the documentation of an object
- ☐ Creates man file
- ☐ I don't know

5. What is `__repr__`?

Score: 1.0

- ☐ Instance method that prints an "official" string representation of an instance
- ☒ Instance method that returns an "official" string representation of an instance
- ☐ Instance method that returns the dictionary representation of an instance
- ☐ I don't know

6. What do these lines print?

Score: 1.0

```
class Base():
    """ My base class """

    __nb_instances = 0

    def __init__(self):
        Base.__nb_instances += 1
        self.id = Base.__nb_instances

class User(Base):
    """ My User class """

    def __init__(self):
        super().__init__()
        self.id += 99
```

```
u = User()
print(u.id)
```

- ☐ 99
- ☒ 100
- ☐ 1
- ☐ I don't know

7. Bubble Sort is a _____.

Score: 1.0

- ☒ simple comparison sorting algorithm
- ☐ complex comparison sorting algorithm
- ☐ simple non-comparison searching algorithm
- ☐ simple non-comparison sorting algorithm
- ☐ I don't know

8. Is this a standardized way to comment a function in Python?

Score: 1.0

```
/* Addition function */
def add(a, b):
    return a + b
```

- ☒ No
- ☐ Yes
- ☐ I don't know

9. What do these lines print?

Score: 1.0

```
class User:
```

```
id = 1

u = User()
User.id = 98
print(u.id)
```

- ☐ None
- ☐ 1
- ☐ 89
- ☒ 98
- ☐ I don't know

10. Which of the following sorting algorithms has best case time complexity of $O(n\log(n))$?

Score: 0.0

- ☐ Quick Sort
- ☒ Bubble Sort
- ☐ Insertion Sort
- ☐ Selection Sort
- ☐ I don't know

11. What is the `unistd` symbolic constant for the standard error?

Score: 0.5

- ☐ STDIN_FILENO
- ☐ STDOUT_FILENO
- ☒ STDERR_FILENO
- ☒ I don't know

12. What is the size of the `int` data type on a 64-bit machine?

Score: 1.0

- ☐ 1 byte
- ☐ 2 bytes
- ☒ 4 bytes
- ☐ 8 bytes
- ☐ I don't know

13. Based on this code, what should all the test cases be?

Score: 0.0

(select all possible answers)

```
def uniq(list):  
    """ Returns unique values of a list """  
    u_list = []  
    for item in list:  
        if item not in u_list:  
            u_list.append(item)  
    return u_list
```

- ☒ empty list
- ☐ list with one element (any type)
- ☐ list with 2 different elements (same type)
- ☐ list with the same element twice (same type)
- ☐ list with more than 2 times the same element (same type)
- ☐ list with multiple types (integer, string, etc...)
- ☐ not a list argument (ex: passing a dictionary to the method)
- ☐ I don't know

14. In a singly linked list, what are possible directions to traverse it?

Score: 0.0

(select all possible answers)

- ☒ **Forward**
- ☒ **Backward**
- ☐ I don't know

15. What do these lines print?

Score: 0.0

```
class Base():
    """ My base class """

    __nb_instances = 0

    def __init__(self):
        Base.__nb_instances += 1
        self.id = Base.__nb_instances

class User(Base):
    """ My User class """

    def __init__(self):
        super().__init__()
        self.id = 89

u = User()
print(u.id)
```

- ☐ **89**
- ☒ **90**
- ☐ 1

- ☐ I don't know

16. In this following code, what is `__password`?

Score: 1.0

```
class User:
    id = 89
    name = "no name"
    __password = None

    def __init__(self, new_name=None):
        self.is_new = True
        if new_name is not None:
            self.name = new_name
```

- ☐ A public class attribute
- ☐ A public instance attribute
- ☐ A protected class attribute
- ☐ A protected instance attribute
- ☒ A private class attribute
- ☐ A private instance attribute
- ☐ I don't know

17. Is this module correctly documented?

Score: 1.0

```
#!/usr/bin/python3
"""
    My calculation module
"""
import sys
...
```

- ☒ Yes
- ☐ No
- ☐ I don't know