Curriculum

SE Foundations Average: 137.49%

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Evaluation quiz correction

Evaluation Quiz: Evaluation #4

Date: 2023-11-27

Status: Done

Duration: 13 minutes

Score: 94.44%

"I don't know": 0

Success: 17

Fail: 1

Responses

0. Is this module correctly documented?

```
#!/usr/bin/python3
"""

   My calculation module
"""
import sys
...
```

Score: 1.0



```
Yes
```

I don't know

1. What is __doc__ **?**

Score: 1.0

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

2. What do these lines print?

```
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)
```

Score: 1.0

✓ 89

90

1

I don't know

3. 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 1 don't know

4. What do these lines print?

```
>>> 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
```

Score: 1.0

- name
- None
- John'
- 'no name'
- I don't know

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

(select all possible answers)

Q

```
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
```

Score: 1.0

✓	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)

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

(select all possible answers)

Score: 1.0

Forward

I don't know

Backward

I don't know

7. Bubble Sort is a
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

2

8. In this following code, what is __password?

```
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
```

Score:	1.	0.

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

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

Score: 1.0

	Tab	

- Stack
- Queue
- Binary Tree
- I don't know

10. 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

11. What do these lines print?

```
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)
```

Score: 1.0

99

100

1

I don't know

12. What do these lines print?

```
class User:
   id = 1

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

Score: 1.0

None

1

	89
✓	98

I don't know

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

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

Score: 0.0

No

Yes

I don't know

14. What does the following Bash script do?

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

var="Tech"
if [ -e "$var" ]
then
    if [ -f "$var" ]
    then
        echo "Betty"
    elif [ -d "$var" ]
    then
        echo "School"
    fi
else
        echo "$var doesn't exist"
fi
```

Score: 1.0

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

15. What is the unistd	symbolic constant for the standard	error?
------------------------	------------------------------------	--------

Score: 1.0

STDIN	l FIL	LENC

- STDOUT_FILENO
- STDERR_FILENO
- I don't know

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

Score: 1.0

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

17. Given this code:

```
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):

Score: 1.0

- my_point.y = 98
- my_point->y = 98
- p.y = 98
- (*p).y = 98

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