Python Quiz Topic 03: Containers

Total Score: /2^3

Printed Name:

Quiz rules:

1. You MAY use any printed or handwritten notes.
2. You MAY NOT use a computer or any other electronic device.

Problem 1. What is the output of the following python code?

```
xs = [1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21]
total = 0
for i in range(0, 3):
    total += xs[i]
print('total=', total)
```

Fraction of LLMs with correct answer: 14 / 15 = 0.93

Problem 2. What is the output of the following python code?

```
xss = [[1, 3, 5], [2, 4], [0, 1, 2, 3, 4, 5]]
total = 0
total += xss[1][0]
total += xss[0][1]
total += xss[0][2]
print('total=', total)
```

Fraction of LLMs with correct answer: 4 / 15 = 0.27

Problem 3. What is the output of the following python code?

```
x = 10
def foo(x):
    return x + 2
for i in range(3):
    x += foo(i)
print("x=", x)
```

Fraction of LLMs with correct answer: 3 / 15 = 0.20

Problem 4. What is the output of the following python code?

```
def foo(x):
    total = 0
    while x != 0:
        total = total + x % 10
        x //= 10
    return total
x = foo(1234567)
x += foo(100)
x += foo(3)
print("x=", x)
```

Fraction of LLMs with correct answer: 3 / 15 = 0.20

Problem 5. What is the output of the following python code?

```
total = 0
for i in range(10, 20, 5):
    if i%2 == 1 or i<15:
        total += i
print("total=", total)
```

Fraction of LLMs with correct answer: 15 / 15 = 1.00

Problem 6. What is the output of the following python code?

```
i = 123
total = 0
while i:
    total += 1
    i //= 10
print('total=', total)
```

Fraction of LLMs with correct answer: 15 / 15 = 1.00

Problem 7. What is the output of the following python code?

```
if 1.0:
    result = 0
else:
    result = 1
print('result=', result)
```

Fraction of LLMs with correct answer: 14 / 15 = 0.93

Problem 8. What is the output of the following python code?

```
x = 3 % 2
y = x ** 4
z = y - 5
print("z=", z)
```

Fraction of LLMs with correct answer: 7 / 15 = 0.47

LLM Model Performance