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?

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

Fraction of LLMs with correct answer: $13 / 15 = 0.87$

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

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

Fraction of LLMs with correct answer: $0 / 1 = 0.00$

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

```python
1  x = 10
2  def foo(x):
3      return x - 2
4  for i in range(3):
5      x -= foo(i)
6  print("x=", x)
```

Fraction of LLMs with correct answer: $0 / 1 = 0.00$

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

```
1   def foo(x):
2       total = 0
3       while x != 0:
4           total = total + x % 10
5           x //= 10
6       return total
7   x = foo(12345)
8   x += foo(100)
9   x += foo(3)
10  print("x=", x)
```

Fraction of LLMs with correct answer: 0 / 1 = 0.00

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

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

Fraction of LLMs with correct answer: 0 / 1 = 0.00

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

```
1   i = 1234
2   total = 0
3   while i:
4       total += 1
5       i //= 10
6   print('total=', total)
```

Fraction of LLMs with correct answer: 1 / 1 = 1.00

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

```
1   if 0.1:
2       result = 0
3   else:
4       result = 1
5   print('result=', result)
```

Fraction of LLMs with correct answer: 1 / 1 = 1.00

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

```
1   x = 3 // 2
2   y = x ** 4
3   z = y + 5
4   print("z=", z)
```

Fraction of LLMs with correct answer: 0 / 1 = 0.00

LLM Model Performance