



Revisiting Commonly
Missed Quiz Concepts

Announcements

Re: Assignments:

- **EX07: Linked List Utility Functions** due tomorrow
 - Want help? Please visit:
 - **Office Hours:** 11am–5pm today and tomorrow (in SN008)
 - **Tutoring:** 5-7pm today (in SN011)
 - (no OH or Tutoring Wednesday–Sunday)

Quiz 00

```
1  """Some functions!"""
2
3  def perimeter(length: float, width: float) -> float:
4      """A curious function."""
5      return 2 * length + 2 * width
6      return length * width + 4
7
8  def square_perimeter(side: float) -> float:
9      """Another curious function."""
10     print("Calculating...")
11     return perimeter(length=side, width=side)
12
13 print(square_perimeter(side=4.0))
```

What line(s) would be unreachable in this code listing? Why?

Quiz 01

Which operator has the highest precedence, meaning it will be evaluated first, in an expression with the following operators?

- ☐ or
- ☐ >
- ☐ and
- ☐ not

Logical / Boolean Operators

Expression	Evaluation
False or False	False
True or False	True
False or True	True
True or True	True

Expression	Evaluation
False and False	False
True and False	False
False and True	False
True and True	True

Expression	Evaluation
not False	True
not True	False

Precedence (highest to lowest):

0. Arithmetic operators (PEMDAS)
1. Relational Operators
2. Not
3. And
4. Or

Quiz 02

```
1 roster: dict[int, str] = {4: "Davis", 22: "Lubin", 30: "Mayo", 110: "Rameses"}  
2 final_four: set[int] = {2016, 2017, 2022}  
3 chant: list[str] = ["U", "N", "C"]
```

What will be printed?

```
for c in chant:  
    print(f"{c}!")
```

. What will be printed?

```
def say(uni: list[str]) -> str:  
    letters: str = ""  
    for char in uni:  
        letters += char  
    return letters  
  
print(say(chant))
```

Quiz 02

Consider the following code listing:

```
1 animals: list[str] = ["fox", "bear", "rabbit"]
2 ints: list[int] = [1, 1, 1, 1]
3 two_d: list[list[int]] = [[10, 20], [30, 40], [50, 60]]
```

Write an expression that accesses the list [50, 60] stored in the `two_d` variable.

Quiz 02

Consider the following code listing:

```
1 animals: list[str] = ["fox", "bear", "rabbit"]
2 ints: list[int] = [1, 1, 1, 1]
3 two_d: list[list[int]] = [[10, 20], [30, 40], [50, 60]]
```

Write an expression that accesses the value 40 stored in the `two_d` variable.

Quiz 02

Consider the following code listing:

```
1 animals: list[str] = ["fox", "bear", "rabbit"]
2 ints: list[int] = [1, 1, 1, 1]
3 two_d: list[list[int]] = [[10, 20], [30, 40], [50, 60]]
```

Write a sequence of 3 assignment statements that will swap the values of the 0 and 1 index in `animals`. You will need to declare and initialize a temporary variable.

Quiz 03

```
1 class Pet:
2     name: str
3     age: int
4
5     def __init__(self, n: str, a: int):
6         self.name = n
7         self.age = a
8
9 class Person:
10     name: str
11     pets: list[Pet]
12
13     def __init__(self, n: str, pets: list[Pet]):
14         self.name = n
15         self.pets = pets
16
17     def adopt(self, new_pet: Pet) -> None:
18         print(f"{self.name} adopted {new_pet.name}!")
19         self.pets.append(new_pet)
20
21 farah: Person = Person(n = "Farah", pets = [])
22 ella: Pet = Pet("Ella", 1)
23 farah.adopt(ella)
```