



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 <b>or</b> False	False
True <b>or</b> False	True
False <b>or</b> True	True
True <b>or</b> True	True

Expression	Evaluation
False <b>and</b> False	False
True <b>and</b> False	False
False <b>and</b> True	False
True <b>and</b> 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)
```