Hack110 Sign-Up Form!

When? Saturday, November 8th from 10 AM - 12 AM (Midnight)

Where? In Sitterson Lower Lobby

Who can join? Anyone in COMP 110! No prior experience required.

Bring a partner, find one there, or go solo!

Come for a fun day of coding, workshops and events (<u>food and CLE credit will be provided</u>):

- Choose 1 of many tracks like web dev, game dev, etc and WIN PRIZES too!
- Go to various <u>workshops & events</u> such as: Navigating the CS
 Major, Resume workshop, ice cream station, and kahoot trivia and
 MORE!
- Link: Sign-Up via the QR code
- Sign-up form closes Monday, October 20th at 11:59 pm
 - Spots are limited! So we'll prioritize interest!
 - If you have a partner, ONLY ONE OF YOU has to sign up you will just enter your partner's info in the form.

<u>Instagram</u>



Sign-Up Here!





Reference Types & Practice with Lists

Announcements

• CQ02: Memory Diagram with Lists due Monday, Sep 29

```
"""An example of primitive vs. reference types."""
     a: int = 0
     b: int = a
     b += 1
     print(f"a is: {a}")
     print(f"b is: {b}")
     c: list[int] = [b, 4]
     d: list[int] = c
11
12
     d.append(13)
13
     print(c)
14
```

Your turn: write a function called **gen** that takes as input an int called **n**, and returns a **list** of integers from 0 up to, but not including **n**

```
def gen(stop: int) -> list[int]:
    """Generate a list from 0 to stop, not inclusive."""
    i: int = 0
    acc: list[int] = []
    while i < stop:</pre>
        acc.append(i)
        i = i + 1
    return acc
print(gen(3))
```

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Diagramming a Nested List (Your CQ to submit!)

```
def sum2d(xs: list[list[int]]) -> int:
    """Calculate the sum of a 2-dimensional list of lists."""
    total: int = 0
    row_i: int = 0
    while row_i < len(xs):
        col_i: int = 0
        while col_i < len(xs[row_i]):
            total += xs[row_i][col_i]
            col_i += 1
        row_i += 1
    return total

values: list[list[int]] = [[1, 2, 3], [3, 4, 5]]
    print(sum2d(values))</pre>
```