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WOMXN IN TECH WEEK'23

Scan QR Code to visit WIT Week 23 Website & register for employer events.



SCHEDULE OF EVENTS

MONDAY, MARCH 6

- 4pm - Guide to Consulting w/ CapTech (FB009)
- 6pm - Kickoff Event (FB009)
Food & Merch provided.
- 7:30pm - Packaging Bits & Bytes with KTP (SN011)

TUESDAY, MARCH 7

- 5:30pm -Bringing Your Whole Self To Work w/ Capital One (FB009)
- 6:30pm - Game Night w/ WiCS (FB007)
- 7:30pm - Grace Hopper Info Session (XL Fishbowl)
- 8:30pm - AppTeam Womxn in iOS Panel (FB009)

WEDNESDAY, MARCH 8

- 5pm - Preparing for Behavioral Interviews & Networking w/ Fidelity (SN014)
- 7pm - VR Social with Carolina AR/VR (SN014)
- 8pm - WIT Scavenger Hunt & Social with CS+SG (SN014)

THURSDAY, MARCH 9

- 3pm -Technical Interviewing 101 w/ CoStar (SN115)
- 4pm - Navigating Your First Internship & Networking w/ Wells Fargo (SN115)
Refreshments provided.
- 6pm - Graduate School Panel w/ GWICS (SN011)
- 7:30pm - Preparing for Tech Interviews w/ Genesys (SN011)

Visit the website to register for employer events (requested, but not required), sign up to volunteer, and learn more about the social events being hosted throughout the week!

Be sure to attend the **WiT Week Kickoff** Monday March 6th @ 6pm in FB009.
Food. Merch. Photo Booth. WiT Souvenir Painting.

<https://bit.ly/witweek23full>

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UNC COLLEGE OF ARTS AND SCIENCES Computer Science

Attention: Anyone who wants to take 210!!!

If you are *leaning towards* taking 210 (don't have to be certain!) please fill this out:

<https://go.unc.edu/comp210-fall23-demand>

We want to be sure we have enough seats!

Due end of day **today!!!**

General Housekeeping

Exercises: Submit just the `exercises` folder, not your entire workspace!
We will take off points!

Virtual office hours: please include a Zoom link in your ticket and ***start the meeting!***

Quiz grades released! If you don't see a grade for your quiz, email comp110help@gmail.com with section number (and version if you remember).

COMP
110

CL06 - for loops + sequence

for ... in ... loops

```
xs: list[int] = [1, 2, 3]
```

Print every element of xs

while

for ... in ...

Example 2

```
pets: list[str] = ["Louie", "Bo", "Bear"]
```

Using a **for ... in ...** loop, write code to tell each pet they're a good boy!

Challenge: call each elem something other than "elem"

Output should be:

Good boy, Louie!

Good boy, Bo!

Good boy, Bear!

Sequences

What is a Sequence?

An Abstract Data Type that is an ordered, 0-indexed set of values.

There are many specific types of sequences with their own properties. Common, builtin sequence types in Python include:

- str: a sequence of character data
- list: a dynamically sized sequence of values of a specific type
- tuple: a fixed size sequence of values of any types
- range: a sequence of integers at intervals between a start and end

Tuples

- Tuples types are made of a specific, fixed-length sequence of any mixed type(s).
- Example:

```
3d_coordinate: tuple[float, float, float] = (1.0, 1.0, 1.0)
```

- Other example:

```
Player = tuple[str, int]
```

```
lebron : Player = ("James", 6)
```

```
mj: Player = ("Jordan", 23)
```


Tuples in Memory

On the heap, but don't worry about it. :-)

Range



- Includes start point, does not include end point, and *steps* through every point in between
- Constructor: `range(start, end, [step = 1])`
- Examples:
 - `range(1, 5)` stops at numbers 1, 2, 3, 4
 - `range(1, 6, 2)` stops at numbers 1, 3, 5

Range in memory

Stored on heap. Always has three attributes: **start**, **stop**, **step**



Using `range()` in a `for ... in ...` loop.

```
names: list[str] = ["Alyssa", "Janet", "Vrinda"]
```

Print every element's index and value:

0: Alyssa

1: Janet

2: Vrinda

Challenge Questions:

Modify the `sum` function in `sum.py` from Tuesday's virtual lesson so that instead of using a `while` loop, it uses a `for ... in ...` loop.

Then run the unit tests you wrote on Tuesday to ensure that your modification worked!

Upload your `sum.py` file to the autograder.

Then do the same with a `for ... in range(len(xs))` loop.

