#### CSci 127: Introduction to Computer Science



hunter.cuny.edu/csci

CSci 127 (Hunter)

Lecture 1

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#### Welcome



### Introductions: Course Designers







Dr. Katherine St. John

Dr. William Sakas

Prof. Eric Schweitzer

Professor, Interim Chair Associate Professor, Chair Undergraduate Program Coordinator

CSci 127 (Hunter)

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#### Introductions: Instructors



Dr. Tong Yi

Large Lecture Course Coordinator



Lola Samigjonova

Early College Initiative

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#### Introductions: Undergraduate Teaching Assistants

Abir Banik Arsen Tumanian Bode Chiu Eva Georgieva Jessie Lin Omer Skaljic Umar Faruque Abu Butt Arterio Rodrigues Brendan South Filip Tracinka Kazi Mansha Rawad Yakub Yoomin Song Alvin Wu Ashfak Uddin Christopher Asma Georgina Woo Lauren Ailla Ryan Vaz Youssef Elshabasy Ammar Siddiqui Axel Batista Diana Luna Gustavo Grijalba Moises Acero Sheikh Fuad Zhipeng Lin Angelica Bailey Bahtija Durakovic Eric Grachev Hnin Lwin Moody Rahman Syeda Nahar Zongming Ke

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#### Introductions: Advisors



Justing Tojeira CS Advisor



Pavel Shostak CS Advisor



Eric Schweitzer Undergraduate Program Coordinator eschweit@hunter.cuny.edu

jtojeira@hunter.cuny.edu

ps57@hunter.cuny.edu

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#### Where to find Course Content

• Course Website: https://huntercsci127.github.io/f22.html

### Where to find Course Content

- Course Website: https://huntercsci127.github.io/f22.html
- Blackboard

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### Where to find Course Content

- Course Website: https://huntercsci127.github.io/f22.html
- Blackboard
- Gradescope (program submission)

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#### Syllabus

#### CSci 127: Introduction to Computer Science

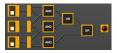
Catalog Description: 3 hours, 3 credits: This course presents an overview of computer science (CS) with an emphasis on problem-solving and computational thinking through 'coding': computer programming for beginners...

This course is pre-requisite to several introductory core courses in the CS Major. The course is also required for the CS minor. MATH 12500 or higher is strongly recommended as a co-req for intended Majors.

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• This course assumes no previous programming experience.

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Lecture 1

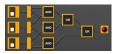
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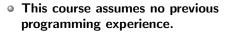




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• Organized like a fugue, with variations on this theme:

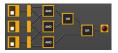




- Organized like a fugue, with variations on this theme:
  - Introduce coding constructs in Python,

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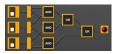




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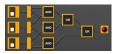


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  - Apply those ideas to different problems (e.g. analyzing & mapping data),







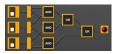
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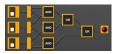
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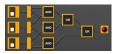
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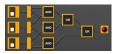
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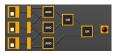


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 $\star$  for C++.

#### Course Structure



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First "computers"

ENIAC, 1945.

• Tuesdays, 10:00 -11:15am, In person: 118 HN, Assembly Hall

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First "computers" ENIAC, 1945.

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- Mix of explanation, challenges & group work.

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First "computers" ENIAC, 1945.

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- Lecture Preview: 15 minutes Quiz on Blackboard **prior** to each lecture (opens on Mondays).

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- Ask questions during group work.

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#### Course Structure



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First "computers"

ENIAC, 1945.

Each Week:

• You must independently read through the weekly online Lab.

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First "computers" ENIAC, 1945. Each Week:

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- Replaces scheduled recitation meeting.

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First "computers" ENIAC, 1945. Each Week:

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- Set aside about 1 hour each week, preferably at the same time, add it to your schedule.

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First "computers" ENIAC, 1945. Each Week:

- You must independently read through the weekly online Lab.
- Replaces scheduled recitation meeting.
- Set aside about 1 hour each week, preferably at the same time, add it to your schedule.
- Lab content directly supports weekly programming assignments.

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Each Week:

- You must independently read through the weekly online Lab.
- Replaces scheduled recitation meeting.
- Set aside about 1 hour each week, preferably at the same time, add it to your schedule.
- Lab content directly supports weekly programming assignments.
- Labs found on course website (Handouts column in Course Outline)

#### Course Structure



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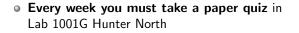
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#### 4 -In-person Quiz & Code Review





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ENIAC, 1945.

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#### 4 -In-person Quiz & Code Review



First "computers"

ENIAC, 1945.

- Every week you must take a paper quiz in Lab 1001G Hunter North
- Quizzes are directly related to the current week's lab content

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#### 4 -In-person Quiz & Code Review



First "computers"

ENIAC, 1945.

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- Every week you must take a code review in Lab 1001G Hunter North



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- You **must make an appointment** for taking quiz and code review (two separate appointments, you can make them back to back)



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- There is limited availability, plan ahead and don't miss your appointments!
- Links to make appointments will be available on Blackboard
- Quiz and code review topics and due dates can also be found on the course website

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# Course Structure



CSci 127 (Hunter)

Lecture 1

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First "computers"

ENIAC, 1945.

Each Week:

• Starting September 12, there will be one program due each day!

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First "computers"

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Each Week:

- Starting September 12, there will be one program due each day!
- 5 Programming Assignments each week!

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- Work ahead!!! Students who work on programs on the due date often miss the deadline!



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- Description on Course Webpage.



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- Description on Course Webpage.
- Implement and test on your computer.



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- Implement and test on your computer.
- Submit to Gradescope.



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- Multiple submissions accepted.



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- Description on Course Webpage.
- Implement and test on your computer.
- Submit to Gradescope.
- Multiple submissions accepted.
- For help to run and submit programming assignments, please visit the 1001G lab.



First "computers"

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• This is a hybrid course: there is some work you must do independently outside of class meetings.

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- Schedule a regular time for taking the Lecture Preview



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- Schedule a regular time for the **Quizzes and Code Review**, plan ahead!
- Schedule a regular time for working on programming assignments.
- Schedule a regular time for taking the Lecture Preview
- Put them in your calendar now and then adjust if necessary.

# Course Structure



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First "computers"

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• Peer-mentor Support (UTAs)

 Tutoring: in-person tutoring and programming help in 1001G Hunter North

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First "computers"

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- Schedule an appointment for tutoring, links will be available on Blackboard



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- **Discussion Board** on Blackboard

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First "computers" ENIAC, 1945. Peer-mentor Support (UTAs)

- ► **Tutoring**: in-person tutoring and programming help in 1001G Hunter North
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- ► Email: cs127uta@hunter.cuny.edu



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- ► Discussion Board on Blackboard
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- All help available Mo-Fr 11:30am-5:30pm when classes are in session
- Office Hours with Dr. Tong Yi
  - Drop-in Hours: Tuesday 12-1pm, Friday 12-1pm
  - By appointment: email ty680@hunter.cuny.edu

# Benefits of Tutoring and Code Review

Explain Technical Concepts

> Expert Help

# Procedural Thought Organization

# Learn Debugging

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PEADI

Act

**Develop** your

**Technical Vocabulary** 

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Build

Community

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First "computers"

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• The person who does the work gets the benefit! Learning is personal!!!

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First "computers"

ENIAC, 1945.

- The person who does the work gets the benefit! Learning is personal!!!
- Don't waste your time and money!

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ENIAC, 1945.

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- Don't waste your time and money!
- A few semesters down the road will be too late to catch up on core knowledge and **skills**.



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- Students that pose as experts often circulate bad/incorrect solutions

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- Students that pose as experts often circulate bad/incorrect solutions
- Our UTAs are the true experts and equipped to help you learn and succeed!



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- All instances of academic dishonesty will be reported to the office of Student Affairs

## Communication



First "computers"

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 Important weekly communication sent via Blackboard

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## Communication



First "computers" ENIAC. 1945.

- Important weekly communication sent via Blackboard
- Check your email account associated with Blackboard

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### Communication



First "computers" ENIAC, 1945.

- Important weekly communication sent via Blackboard
- Check your email account associated with Blackboard
- Check your Spam folder

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## Communication



First "computers" ENIAC, 1945.

- Important weekly communication sent via Blackboard
- Check your email account associated with Blackboard
- Check your Spam folder
- Instructions for changing your email on Blackboard announcements

# Today's Topics



- Introduction to Python
- Turtle Graphics
- Definite Loops (for-loops)
- Algorithms

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# Today's Topics



#### • Introduction to Python

- Turtle Graphics
- Definite Loops (for-loops)
- Algorithms

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• We will be writing programs- commands to the computer to do something.



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- A **programming language** is a stylized way of writing those commands.



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- Our first language, Python, is popular for its ease-of-use, flexibility, and extendibility, supportive community with hundreds of open source libraries and frameworks.



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- The first lab goes into step-by-step details of getting Python running.



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- A programming language is a stylized way of writing those commands.
- If you can write a logical argument or persuasive essay, you can write a program.
- Our first language, Python, is popular for its ease-of-use, flexibility, and extendibility, supportive community with hundreds of open source libraries and frameworks.
- The first lab goes into step-by-step details of getting Python running.
- We'll look at the design and basic structure (no worries if you haven't tried it yet).



Demo in pythonTutor

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#Name: Thomas Hunter
#Date: Aug 31, 2022
#This program prints: Hello, World!

print("Hello, World!")

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```
#Name: Thomas Hunter
#Date: September 1, 2017
#This program prints: Hello, World!
```

```
print("Hello, World!")
```

← These lines are comments
 ← (for us, not computer to read)
 ← (this one also)

← Prints the string "Hello, World!" to the screen

• Output to the screen is: Hello, World!

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- Output to the screen is: Hello, World!
- We know that Hello, World! is a string (a sequence of characters) because it is surrounded by quotes

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- Output to the screen is: Hello, World!
- We know that Hello, World! is a string (a sequence of characters) because it is surrounded by quotes
- Can replace Hello, World! with another string to be printed.

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Variations on Hello, World!

#Name: L-M Miranda
#Date: Hunter College HS '98
#This program prints intro lyrics

print('Get your education,')

#### Spring18 here in Assembly Hall



#### Variations on Hello, World!

#Name: L-M Miranda
#Date: Hunter College HS '98
#This program prints intro lyrics

print('Get your education,')
print("don't forget from whence you came, and")
print("The world's gonna know your name.")

- Each print statement writes its output on a new line.
- Results in three lines of output.
- Can use single or double quotes, just need to match.

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# Today's Topics



- Introduction to Python
- Turtle Graphics
- Definite Loops (for-loops)
- Algorithms

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• A simple, whimsical graphics package for Python.



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• A simple, whimsical graphics package for Python.

• Dates back to Logo Turtles in the 1960s.



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- A simple, whimsical graphics package for Python.
- Dates back to Logo Turtles in the 1960s.
- (Demo from webpage)

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- A simple, whimsical graphics package for Python.
- Dates back to Logo Turtles in the 1960s.
- (Demo from webpage)
- (Fancier turtle demo)

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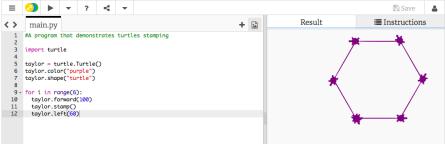
# Today's Topics



- Introduction to Python
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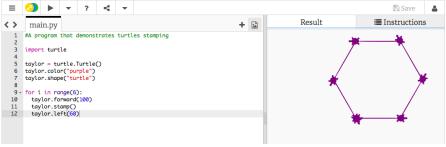
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#### • Creates a turtle variable, called taylor.

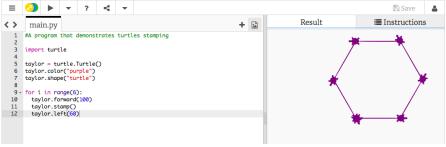
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- Creates a turtle variable, called taylor.
- Changes the color (to purple) and shape (to turtle-shaped).

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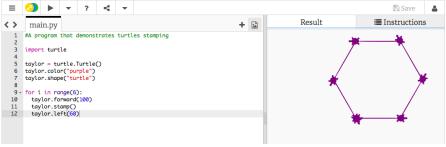
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- Creates a turtle variable, called taylor.
- Changes the color (to purple) and shape (to turtle-shaped).
- Repeats 6 times:

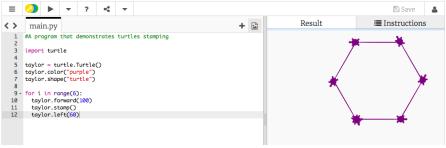
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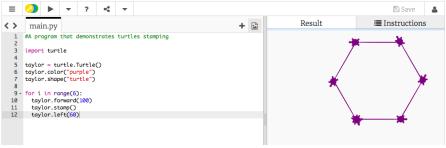
- Creates a turtle variable, called taylor.
- Changes the color (to purple) and shape (to turtle-shaped).
- Repeats 6 times:
  - ► Move forward; stamp; and turn left 60 degrees.

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- Creates a turtle variable, called taylor.
- Changes the color (to purple) and shape (to turtle-shaped).
- Repeats 6 times:
  - ► Move forward; stamp; and turn left 60 degrees.
- Repeats any instructions indented in the "loop block"

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- Creates a turtle variable, called taylor.
- Changes the color (to purple) and shape (to turtle-shaped).
- Repeats 6 times:
  - ► Move forward; stamp; and turn left 60 degrees.
- Repeats any instructions indented in the "loop block"
- This is a **definite** loop because it repeats a fixed number of times

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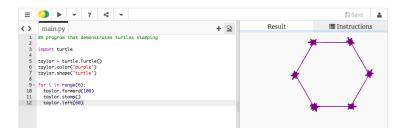
## Group Work

Working in pairs or triples:

- Write a program that will draw a 10-sided polygon.
- Write a program that will repeat the line: I'm lookin' for a mind at work! three times.

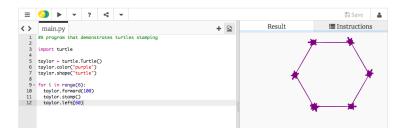
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#### Decagon Program



• Start with the hexagon program.

## Decagon Program



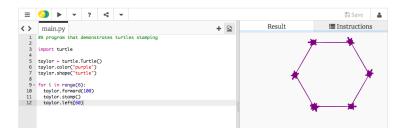
- Start with the hexagon program.
- Has 10 sides (instead of 6), so change the range(6) to range(10).

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## Decagon Program



- Start with the hexagon program.
- Has 10 sides (instead of 6), so change the range(6) to range(10).
- Makes 10 turns (instead of 6), so change the taylor.left(60) to taylor.left(360/10).

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#### Work Program

Write a program that will repeat the line: I'm lookin' for a mind at work! three times.

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#### Work Program

- Write a program that will repeat the line: I'm lookin' for a mind at work! three times.
  - Repeats three times, so, use range(3):

for i in range(3):

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### Work Program

- Write a program that will repeat the line: I'm lookin' for a mind at work! three times.

  - Instead of turtle commands, repeating a print statement.

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## Work Program

- Write a program that will repeat the line: I'm lookin' for a mind at work! three times.
  - Repeats three times, so, use range(3):
     for i in range(3):
  - Instead of turtle commands, repeating a print statement.
  - Completed program:

```
# Your name here!
for i in range(3):
    print("I'm lookin' for a mind at work!")
```

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# Today's Topics



- Introduction to Python
- Turtle Graphics
- Definite Loops (for-loops)
- Algorithms

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#### What is an Algorithm?

From our textbook:

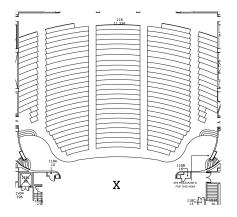
• An algorithm is a process or sequence of steps to be followed to solve a problem.

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#### What is an Algorithm?

From our textbook:

- An algorithm is a process or sequence of steps to be followed to solve a problem.
- Programming is a skill that allows a computer scientist to take an algorithm and represent it in a notation (a program) that can be executed by a computer.



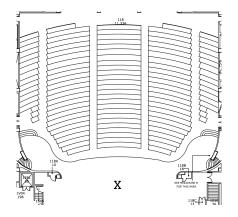
Working in pairs or triples:

- On the floorplan, mark your current location.
- ② Write an algorithm (step-by-step directions) to get to X.

CSci 127 (Hunter)

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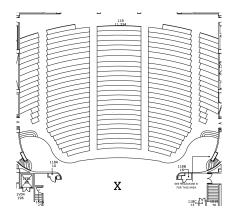
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Working in pairs or triples:

- On the floorplan, mark your current location.
- 2 Write an algorithm (step-by-step directions) to get to X.
- 3 Basic Rules:

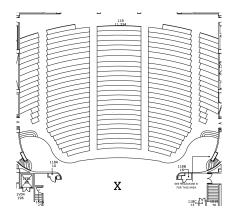
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Working in pairs or triples:

- On the floorplan, mark your current location.
- 2 Write an algorithm (step-by-step directions) to get to X.
- 3 Basic Rules:
  - Use turtle commands.

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Working in pairs or triples:

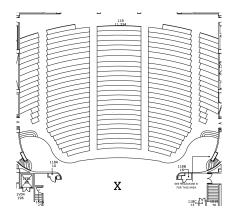
- On the floorplan, mark your current location.
- 2 Write an algorithm (step-by-step directions) to get to X.
- ③ Basic Rules:
  - Use turtle commands.
  - ► Do not run turtles into walls, chairs, obstacles, etc.

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Lecture 1

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Working in pairs or triples:

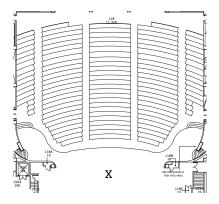
- On the floorplan, mark your current location.
- 2 Write an algorithm (step-by-step directions) to get to X.
- ③ Basic Rules:
  - Use turtle commands.
  - ► Do not run turtles into walls, chairs, obstacles, etc.
  - Turtles cannot climb walls, must use stairs.

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• Have one person in your group be the "turtle."

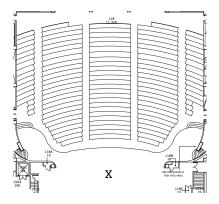
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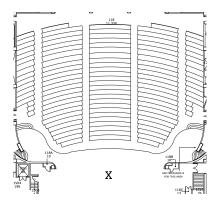
- Have one person in your group be the "turtle."
- Follow the directions to get to X.

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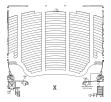


- Have one person in your group be the "turtle." •
- Follow the directions to get to X.
- Annotate any changes needed to the directions (i.e. debug your work). 0

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• On lecture slip, write down a topic you wish we had spent more time (and why).



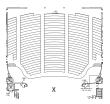
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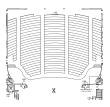


- On lecture slip, write down a topic you wish we had spent more time (and why).
- Writing precise algorithms is difficult.

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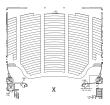
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- On lecture slip, write down a topic you wish we had spent more time (and why).
- Writing precise algorithms is difficult.
- In Python, we introduced:

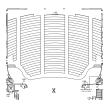
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- On lecture slip, write down a topic you wish we had spent more time (and why).
- Writing precise algorithms is difficult.
- In Python, we introduced:
  - strings, or sequences of characters,

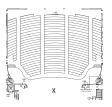
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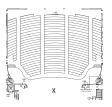
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> print() statements,



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- Writing precise algorithms is difficult.
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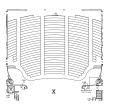
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variables containing turtles.



- On lecture slip, write down a topic you wish we had spent more time (and why).
- Writing precise algorithms is difficult.
- In Python, we introduced:
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  - print() statements,
  - for-loops with range() statements, &
  - variables containing turtles.
- Pass your lecture slips to the aisle for the UTA's to collect.

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Before next lecture, don't forget to:

Work on this week's Online Lab

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Lecture 1

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Before next lecture, don't forget to:

- Work on this week's Online Lab
- Schedule an appointment to take the Quiz in lab 1001G Hunter North



Before next lecture, don't forget to:

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- If you haven't already, schedule an appointment to take the Code Review (one every two weeks) in lab 1001G Hunter North



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- Submit this week's 5 programming assignments (programs 1-5)

CSci 127 (Hunter)



Before next lecture, don't forget to:

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- Schedule an appointment to take the Quiz in lab 1001G Hunter North
- If you haven't already, schedule an appointment to take the Code Review (**one every two weeks**) in lab 1001G Hunter North
- Submit this week's 5 programming assignments (programs 1-5)
- If you need help, schedule an appointment for Tutoring in lab 1001G 11:30am-5:30pm

CSci 127 (Hunter)



Before next lecture, don't forget to:

- Work on this week's Online Lab
- Schedule an appointment to take the Quiz in lab 1001G Hunter North
- If you haven't already, schedule an appointment to take the Code Review (one every two weeks) in lab 1001G Hunter North
- Submit this week's 5 programming assignments (programs 1-5)
- If you need help, schedule an appointment for Tutoring in lab 1001G 11:30am-5:30pm
- Take the Lecture Preview on Blackboard on Monday (or no later than 10am on Tuesday)

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Lecture 1

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# Lecture Slips & Writing Boards



- Hand your lecture slip to a UTA
- Return writing boards as you leave.

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Lecture 1

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