

Plan for WEFWOO

- **Review for exam, studying and practicing for exams and APTs in Compsci 101**
 - Why memorization doesn't help so much
 - Why familiarity does help
 - What's a flashcard for Compsci 101?
 - Bring writing utensils only, we provide reference
- **Algorithms, Python, Idioms, Practice**
 - How do you learn to speak a language?
 - How do you learn to use a computer language?

Writing functions with formulae

<http://bit.ly/101fall15-929-1>

Writing functions with formulae

<http://bit.ly/101fall15-midpractice-2>

- **Using extra variables: can be really smart**

- Helps in making each line simple
- Easy to correct if you've made a mistake

- **See `triangleArea`, what about other math symbols and formula?**

- What do `+`, `-`, `*`, `/`, `%` do?
- What about `math.sqrt` or `5**0.5` or `math.sin ...`

Accumulating in a loop

- **If you are going to return a string**
 - Initialization, return value, how to "build it"
- **If you are going to return an int (counter)**
 - Initialization, return value, how to "build it"
- **If you are going to return a list**
 - Initialization, return value, how to "build it"

Counting 'a's in a string, 'fox' in a list?

- **What Python functions/methods help**
 - If you forget, how can you recreate yourself?
 - See exam Python reference sheet

- **How to write acronym function?**
 - Write/sketch and share solution

Basic File Processing

<http://bit.ly/101fall15-929-2>

Basic File Processing

- **GroceryBagger.py, third question**
 - File processing: read as string, read line by line
 - Reading strings, how to `.strip()`, `.split()`, convert?
- **Being a good programming citizen**
 - Clean up after yourself with closing files
 - Remember that files are read as strings
 - How to convert to numbers?

<http://bit.ly/101fall15-midpractice-2>