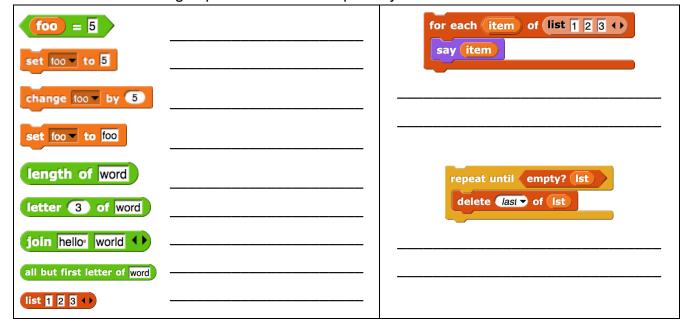
Discussion 11: Intro to Python

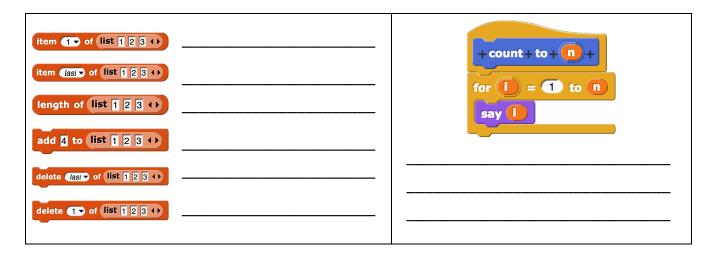
Warm-Up

1. What is the difference between print and return in Python?	
2. Once you write Python code, how do you run it?	
3. What is the difference between running python3, python3 <filename>, and python3 - <filename>? What do each of them do?</filename></filename>	·i
4. How are while loops in Python similar to repeat until loops in Snap? How do they diffe	er?

Learning a Not-So-Foreign Language

1. Translate the following expressions from Snap! to Python:





2. Translate the following blocks of code from Snap! to Python line by line:

Let's Write Some Python

1. Write a function that counts the number of times a given letter appears in a given string. Try writing this both iteratively and recursively!

```
def find_num_letters(letter, str):

def find_num_letters(letter, str):
```

- 2. Define the function Fizzbuzz so that it does the following:
 - Iterates through the numbers 1 100, and for each number:
 - Prints "fizz" if it is divisible by 3.
 - Prints "buzz" if it is divisible by 5.
 - Prints "fizzbuzz" (and *not* "fizz" or "buzz") if it is divisible by 15.
 - Prints the number otherwise.

```
def Fizzbuzz():
```

Errors Galore

We wrote the function floor_divide, which divides a number, big_num, by another number, small_num, and then reports the answer rounded down to the nearest whole number.

Unfortunately, it has a lot of syntax errors and doesn't run. Identify and fix the syntax errors in the code below:

```
def floor_divide(big_num, small_num):
    if small_num = 0:
    return You cannot divide by zero!
    current_num = small_num
    num times = 0
    while current_num <= big_num
        current_num += small_num
        num times += 1
    report num times</pre>
```