CSE 8A Programming Assignment 6

Name(s) (last, first): Barbour-Brown
 PID(s): A17214152
Email(s): dbarbourbrown@ucsd.edu

Known Bugs or Issues:
If you have any known bugs or issues with your code, let us know here.
NA

Questions:

1. We have a 2D list `data`.

```
data = [[10, 20, 30],
        [40, 50, 60]]
```

Explain how you would use `append()` to make data as

```
>>> data
[[10, 20, 30], [40, 50, 60], [70, 80, 90]]
```

data.append([70, 80, 90])   # we append or add to the list "data" another list of three elements
print(data)

#append() adds whatever is inside of the parentheses to the data structure indicated

2. Draw the call stack diagram for the below piece of code at the two different points of execution mentioned.

```
global_var = 2

def func1():
    first_var = 5
    second_var = func2(first_var)
    third_var = 7
    # Draw the globals and call stack diagram when the code
till the above line has been executed (Write in Table 2)
    return first_var + second_var + third_var

def func2(num2):
    fourth_var = 5
```

```
        fifth_var = fourth_var + 2
        # Draw the globals and call stack diagram when the code
till the above line has been executed (Write in Table 1)
        return global_var + num2

func1()
```

-

Table 1:

Globals:

Variable	Value
global_var	2

Stack:

Variable	Value
first_var	5
num2	5
fourth_var	5
fifth_var	7

Table 2:

Globals:

Variable	Value
global_var	2

Stack:

Variable	Value
first_var	5
second_var	7
third_var	7