

Python Lesson Quiz April 27th Lists, Mod operation , and functions

Python data structure: Lists:

- 1.) How do you create an empty list in python ?
- 2.) Create a list called "words" that contain the elements: string1 , string2 , string3
- 3.) True/False: Can you store different types of data in a python list structure. For example, If we had a list called "items" that contained a boolean and a string value, would that cause a compiler error ?
- 4.) How can I get the size of the list with a function call ?
- 5.) Coding Question:
Write a function called **isValidIndex** that takes in an **index number** and a **list** and determines if the index will not cause an error with the given list. The return value will be a boolean (True, False)

Mod operator:

- 6.) Coding Question:
Write a function called **isEven** that takes in an **number** and determines if it is even using the mod operation. The return value will be a boolean (True, False)

** Hint, the number 2 may be of use to you
- 7.) Can the return value of a mod ever be negative ?

Functions

8.) True/False: you cannot return multiple values in a python function ?

9.)

```
count = 1

def double_count_foo(count):
    print("value of count", count)
    return count + count

def double_count_bar():
    global count
    # count is local to the function increase_count
    print("value of count", count)
    return count + count
```

10.) What would happen if the following code was compiled ?

a.) ERROR

b.) Other:

```
def getId(name, company="robolink"):
    print("Hello", name, " from ", company)

getId("thomas")
```