

Quiz 1

1. (1pt) List 3 attributes of scripting languages.

interpreted, high-level operations, implicit type system

2. (4pts) You have been hired by Python Interpreters, Inc. to replace a computer and interpret Python. Evaluate the following expressions as a python interpreter would.

(a) `print 1*2*3`
6

(b) `x = range(10)`
`x.reverse()`
`print x[6:9]`
[3, 2, 1]

(c) `x = "onetwothree"`
`print x[5:8] + x[-1] + x[8]`
'other'

(d) `x = "one"`
`print x*2`
'oneone'

3. (3pts) Write a function **fib(n)** that returns the n^{th} fibonacci number. The n^{th} fibonacci number is generated by the recurrence relation

$$fib(n) = fib(n - 1) + fib(n - 2)$$

where $fib(0) = 1$ and $fib(1) = 1$

```
def fib(n):  
    if n == 0 or n == 1:  
        return 1  
    return fib(n-1)+fib(n-2)
```