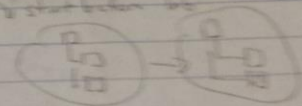


- ☐ Scribe
- ☐ We're on about, mid-qtr. HWT
- ☐ Nanowrimo + projects
- ☐ Healthcare.gov & open source
- ☐ review
- ☐ Fruitful functions
- ☐ feedback

10% of grading Programming  
Oct 25, 2017

please tag your answers  
start before 10



can substitute for  
your HW  
substitute one control  
with code - CSE 161  
to return code to open source  
community

### Review

Types:

- String - abc
- Integers - 5
- Floats - 3.14
- Tuples - (1, 2)
- Lists - [1, 2, 3, 4]
- Functions - def:
- modules - `import`
- boolean - True, False

Expression  
Variables  
Literal  
return

meta-expression  
Comments #

Example:  $n = 73$   
(python anywhere) print n

Ray 2014

$$b = \text{math.sqrt}(b^2 - 4 * a * c)$$

float

def sqrt(x):  
     $y = x^{1/2}$   
    return y

root = -b + y

1, 5] Func  
def.  
True False

2nd Hour

\*pythontutor.com

flag = false

a = 1

if (a == 2):

flag = true

a = 2

a = 3

\*What is the value of the flag at the end of the program?

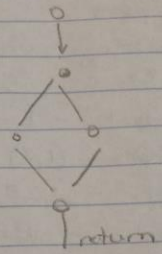
\*Order of operation is important

if (a == 2):

flag = True

else:

a = 5



a = [5, 3, 1]

def swap(a, x, y):

temp = a[x]

a[x] = a[y]

a[y] = temp

swap(a, 0, 2)