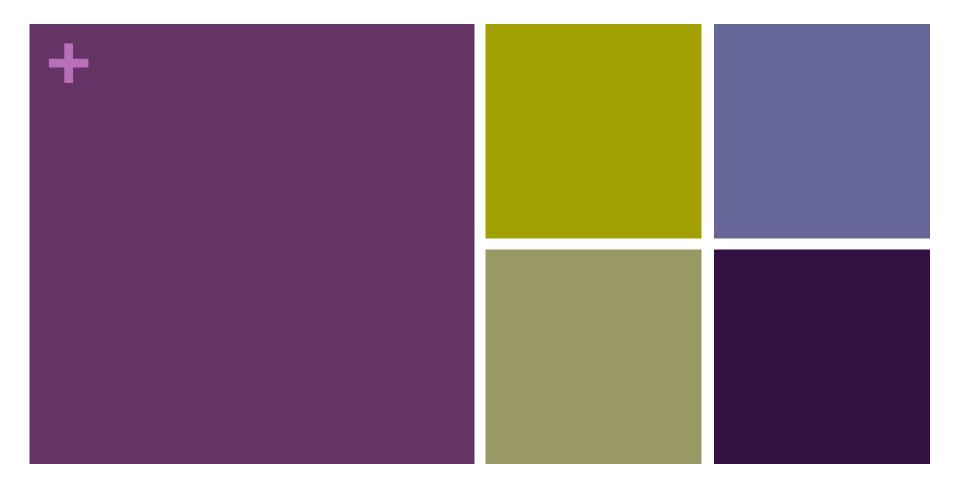


Nested Loops Review



www.pollev.com/python006



Midterm Review

Introduction to Computer Programming - Python

+ Agenda

- Review Exam Format
- Work on IPO Notation
- Complete Worksheet

Final Format

- IN-PERSON in this classroom
- On paper
- Number of questions: approx. 8
- Question types:
 - Trace the output,
 - Fill in the blank
 - Long form programming questions
- Time limit: 1 hour 10 minutes

The Day of the Exam (7/26)

- Get a good night's sleep
- Eat breakfast!
- 11:10 AM- Everyone comes to class and gets settled
- 11:20 AM Exam Opens
- 12:30 PM Exam Ends
- You did it!

+ What to Bring

- NYU ID
- Your Notes
- Pencils/pens

During the Exam

- Put your phone on silent.
- Place your phone, smart watches, and all other belongings in the front of the classroom.
- Look at your own exam!



Function Review

+

Returning Boolean Values

■ Functions can also return Boolean values

```
def isPositive(num):
    if num > 0:
        return True
    else:
        return False
```

+

Returning multiple values

■ Functions can also return multiple values using the following syntax:

```
def testfunction():
    x = 5
    y = 10
    return x, y
p, q = testfunction()
```

IPO Notation

- As you start writing more advanced functions you should think about documenting them based on their Input,
 Processing and Output (IPO)
- Example:

```
# function: add_ages
# input: age1 (integer), age2 (integer)
# processing: combines the two integers
# output: returns the combined value
def add_ages(age1, age2):
    sum = age1+age2
    return sum
```

* IPO Notation Practice

```
1 def discount(price, percent):
        return price * (percent/100)
2. def cube(num):
        return num * num * num
3. def dollar_format(value):
        return "$"+format(value, ',.2f')
4. def get_name():
        name = input('Enter your name: ')
        return name
```

+

Hands-on practice problems