

## CS61A Lecture 2

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## Announcements

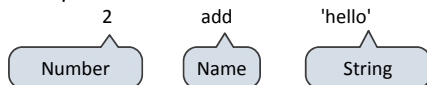


- **Reminder: hw0 due tonight!**
  - Read html file for instructions
  - Use our .py templates for homework and projects
- **Find answers to your questions on Piazza**
  - Use search functionality
  - Don't post private question unless it is not of general interest
- **In-class quiz next Friday**
  - Bring a writing implement

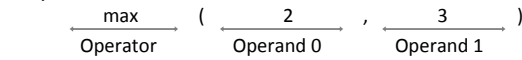
## Review: Expressions



Primitive expressions:



Call expressions:

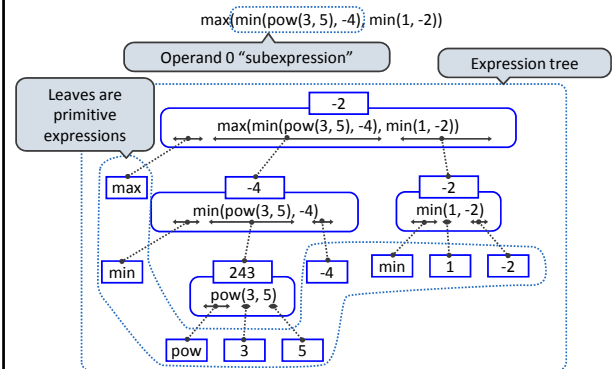


One big nested call expression  
max(min(pow(3, 5), -4), min(1, -2))

Infix operators represent implicit call expressions

2 + 3 → add(2, 3)

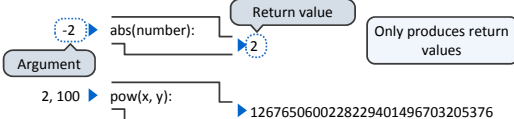
## Review: Evaluation Procedure



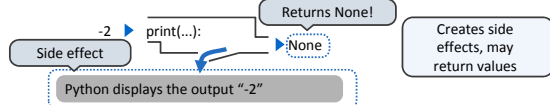
## Types of Functions



Pure Functions

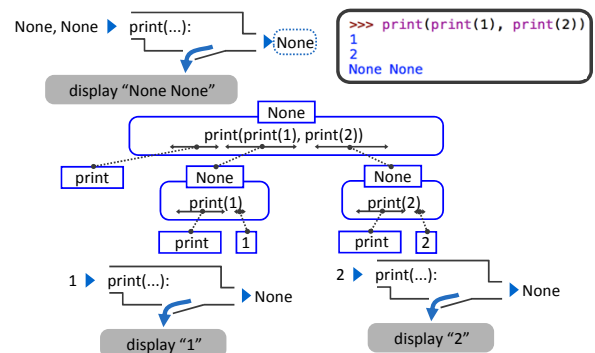


Non-Pure Functions



The interactive interpreter displays all return values except None.

## Nested Print Expressions



## The Elements of Programming



- Primitive Expressions and Statements

- The simplest building blocks of a language

- Means of Combination

- Compound elements built from simpler ones

- Means of Abstraction

- Elements can be named and manipulated as units