

CS61A Lecture 2

Amir Kamil
UC Berkeley
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Announcements



- Reminder: hw0 due tonight!
 - Read html file for instructions
 - Use our .py templates for homework and projects

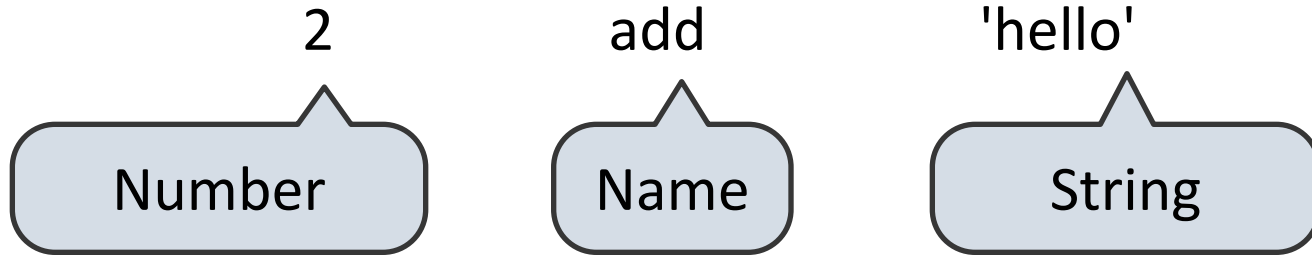
- Find answers to your questions on Piazza
 - Use search functionality
 - Don't post private question unless it is not of general interest

- In-class quiz next Friday
 - Bring a writing implement

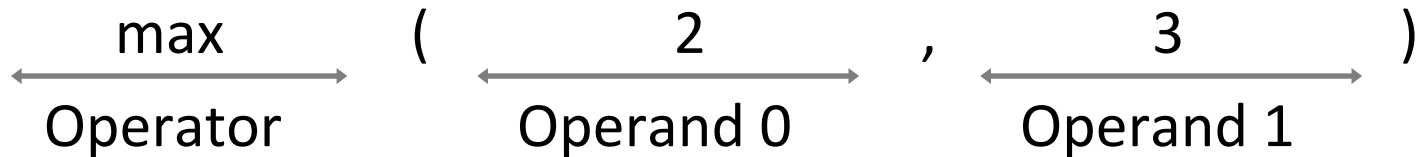
Review: Expressions



Primitive expressions:



Call expressions:



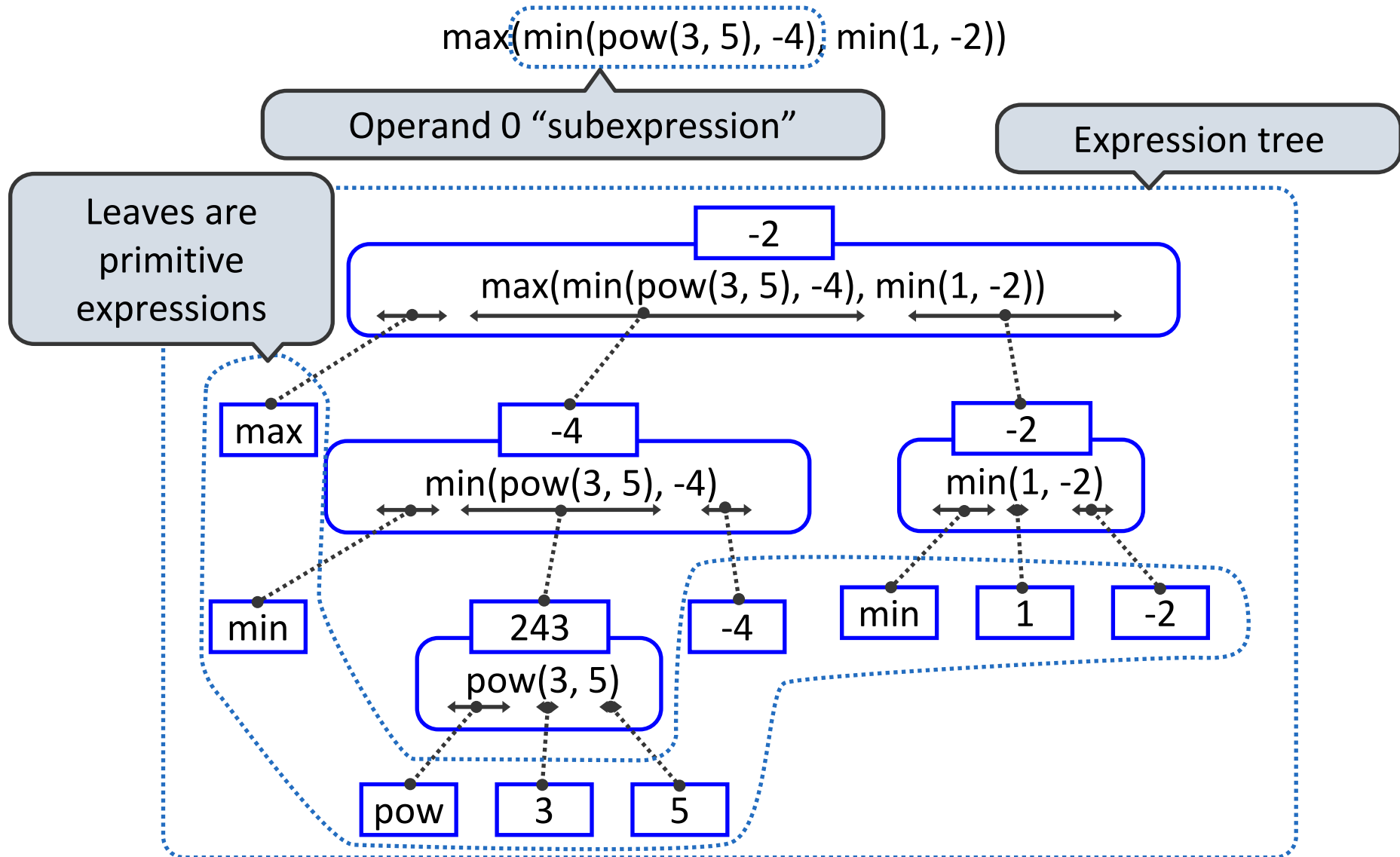
One big nested call expression

`max(min(pow(3, 5), -4), min(1, -2))`

Infix operators represent implicit call expressions

`2 + 3`  `add(2, 3)`

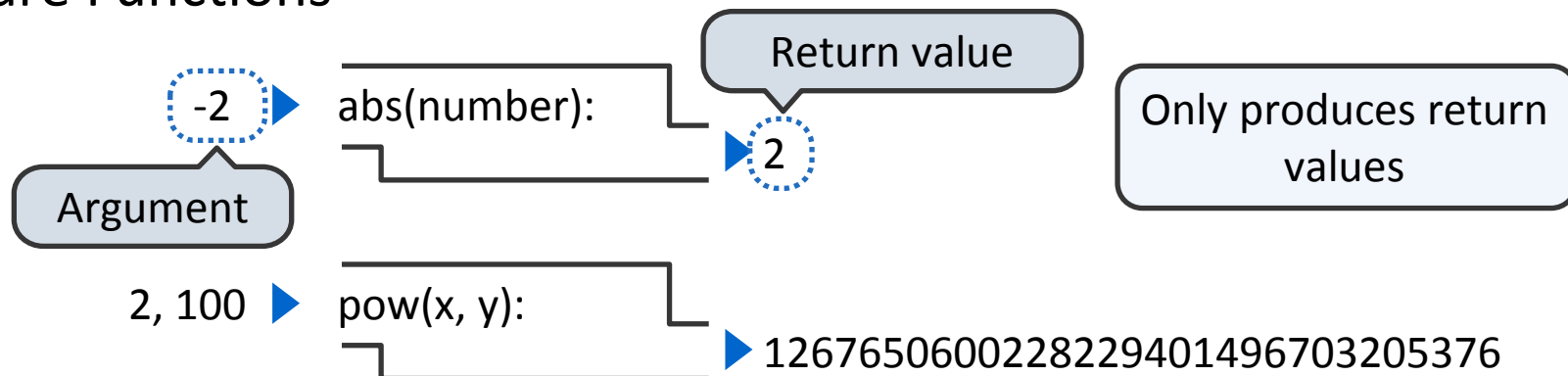
Review: Evaluation Procedure



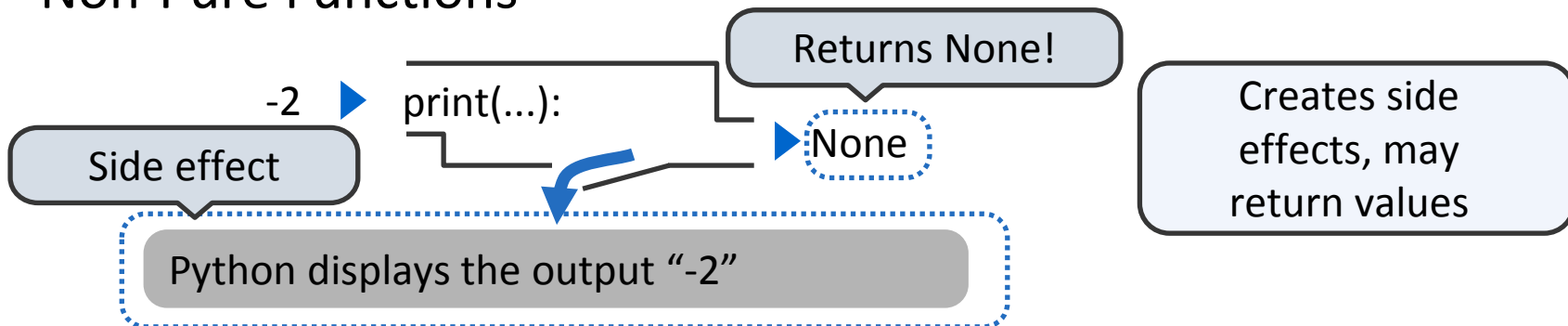
Types of Functions



Pure Functions

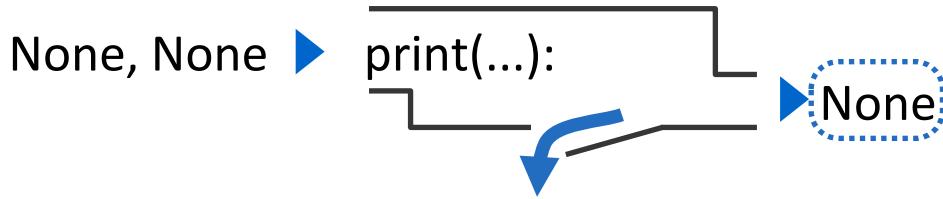


Non-Pure Functions



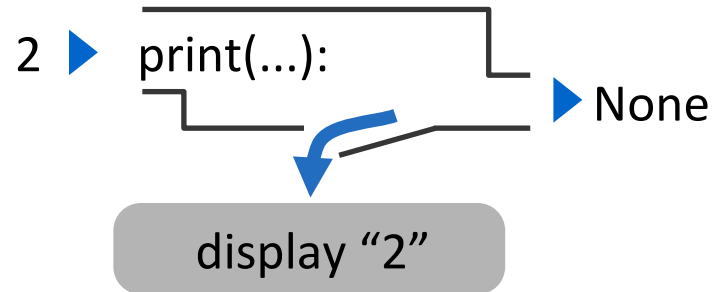
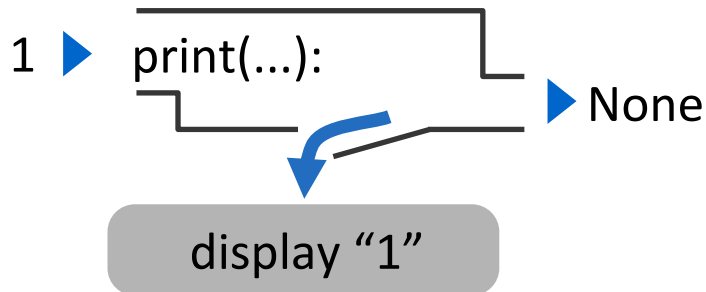
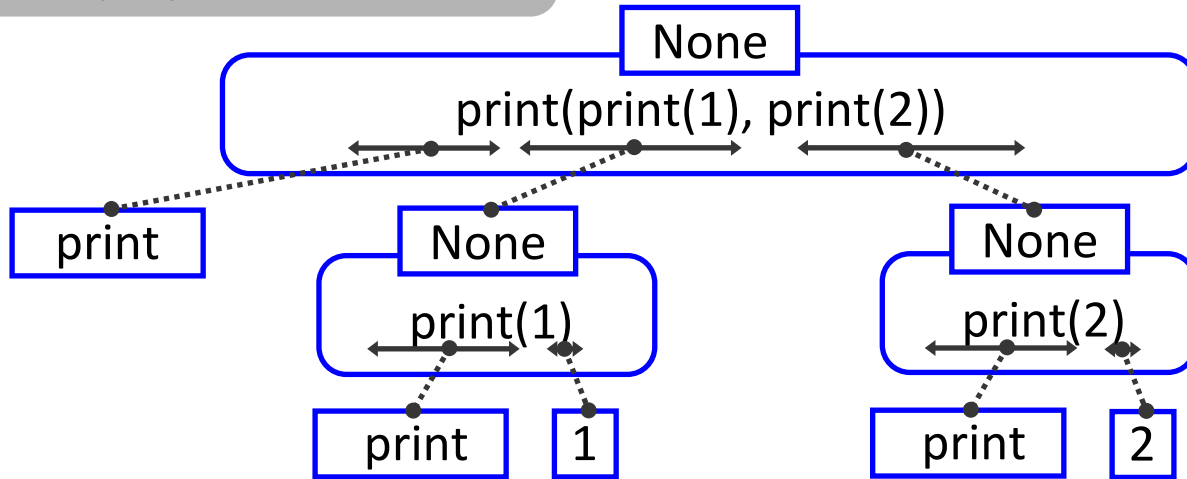
The interactive interpreter displays all return values except None.

Nested Print Expressions



```
>>> print(print(1), print(2))  
1  
2  
None None
```

display "None None"



- 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