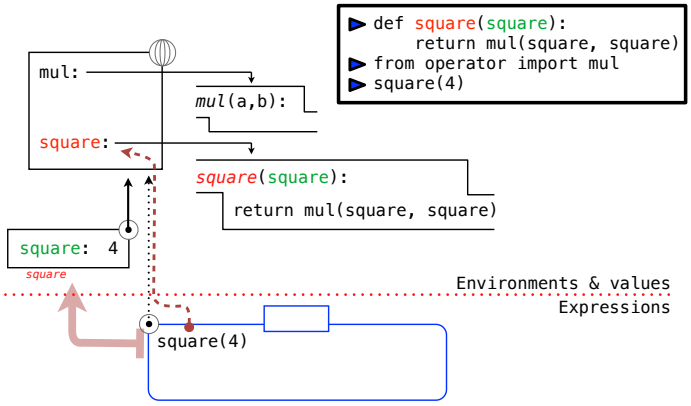
61A Lecture 4

Friday, September 2

What Happened with def square(square)?



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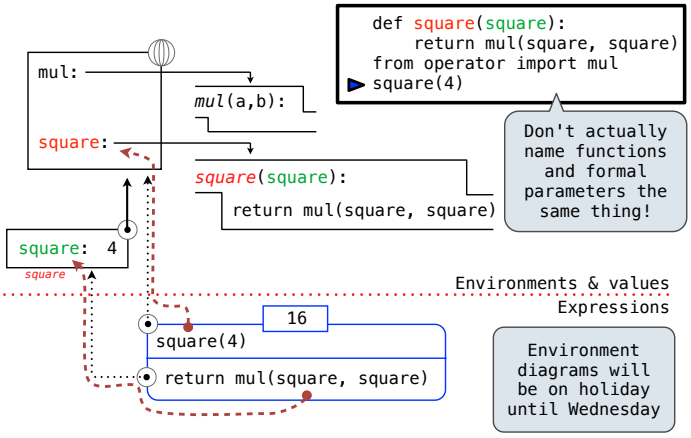
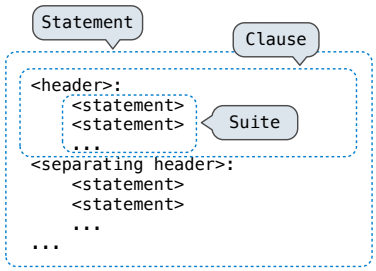


Statements

A statement
is executed by the interpret
to perform an action

Compound statements:



Compound Statements

Compound statements:

```
<header>:
    <statement>
    <statement>
    ...
<separating header>:
    <statement>
    <statement>
    ...
...
```

Suite

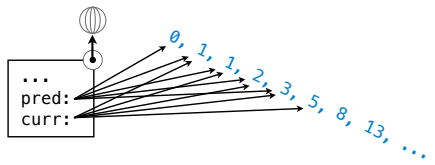
A suite is a sequence of statements

To "execute" a suite means to execute its sequence of statements, in order

Execution Rule for a sequence of statements:

- Execute the first
- Unless directed otherwise, execute the rest

The Fibonacci Sequence




```
def fib(n):
    """Compute the nth Fibonacci number, for n >= 2."""
    pred, curr = 0, 1   # First two Fibonacci numbers
    k = 2               # Tracks which Fib number is curr
    while k < n:
        pred, curr = curr, pred + curr
        k = k + 1
    return curr
```

Higher-Order Functions Introduction

(Demo)

Pig Introduction

(Demo)