



Hog Contest Rules

- Up to two people submit one entry;
 Max of one entry per person
- Your score is the number of entries against which you win more than 50.00001% of the time
- Strategies are time-limited
- All strategies must be deterministic, pure functions of the players' scores
- Winning entries will receive a paltry amount of extra credit
- The real prize: honor and glory
- See website for detailed rules

Fall 2011 Winners

Kaylee Mann Yan Duan & Ziming Li Brian Prike & Zhenghao Qian Parker Schuh & Robert Chatham

Fall 2012 Winners

Chenyang Yuan Joseph Hui

Fall 2013 Winners

Paul Bramsen Sam Kumar & Kangsik Lee Kevin Chen

Fall 2014 Winners

Alan Tong & Elaine Zhao Zhenyang Zhang Adam Robert Villaflor & Joany Gao Zhen Qin & Dian Chen Zizheng Tai & Yihe Li

Hog Contest Winners

Spring 2015 Winners

Sinho Chewi & Alexander Nguyen Tran Zhaoxi Li Stella Tao and Yao Ge

Fall 2015 Winners

Micah Carroll & Vasilis Oikonomou Matthew Wu Anthony Yeung and Alexander Dai

Spring 2016 Winners

Michael McDonald and Tianrui Chen Andrei Kassiantchouk Benjamin Krieges

Fall 2016 Winners

Will Gan & Robert Quitt Eric Sheng & Sachin Kesiraju Mingwei Samuel Simon Zhuang & Vaikunth Balaji Fanyu Meng & Zekai Fan

Spring 2017 Winners

Cindy Jin and Sunjoon Lee Anny Patino and Christian Vasquez Asana Choudhury and Jenna Wen Michelle Lee and Nicholas Chew

Fall 2017 Winners

Alex Yu and Tanmay Khattar James Li Justin Yokota

Spring 2018 Winners

Eric James Michaud Ziyu Dong Xuhui Zhou

Fall 2018 Winners

Rahul Arya Jonathan Bodine Sumer Kohli and Neelesh Ramachandran

Hog Contest Winners

our name could be no

Fall 2019 Winners

Jet Situ and Lucas Schaberg Anthony Han and Hongyi Huang Arthur Pan and Qingyuan Liu

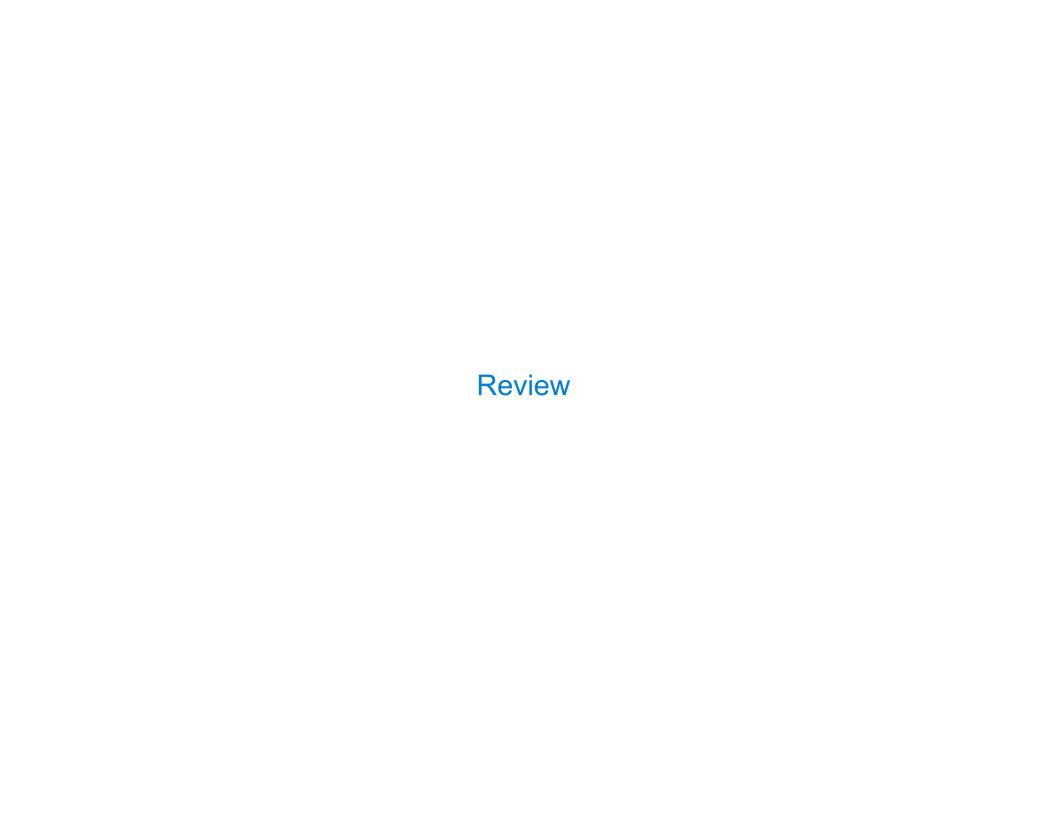
Spring 2020 Winners

Andy Dong Theodor Sion and Anish Kar Shaun Diem-Lane

Fall 2020 Winners

Timothy Guo Shomini Sen Samuel Berkun Mitchell Zhen Lucas Clark Dominic de Bettencourt Allen Gu Alec Li Aaron Janse

Fall 2021 Winners



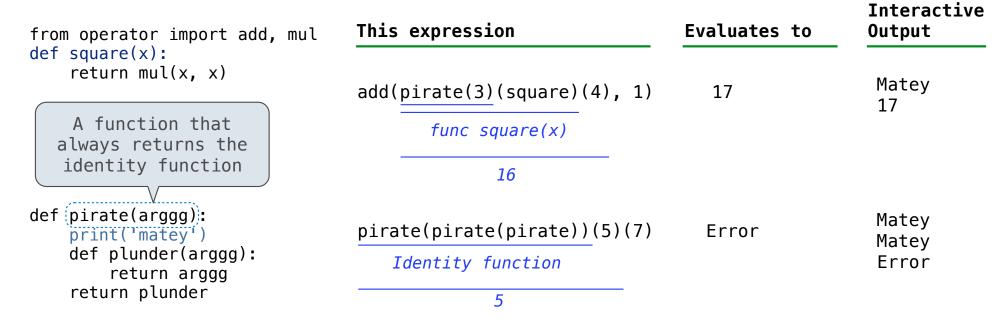
What Would Python Display?

The print function returns None. It also displays its arguments (separated by spaces) when it is called.

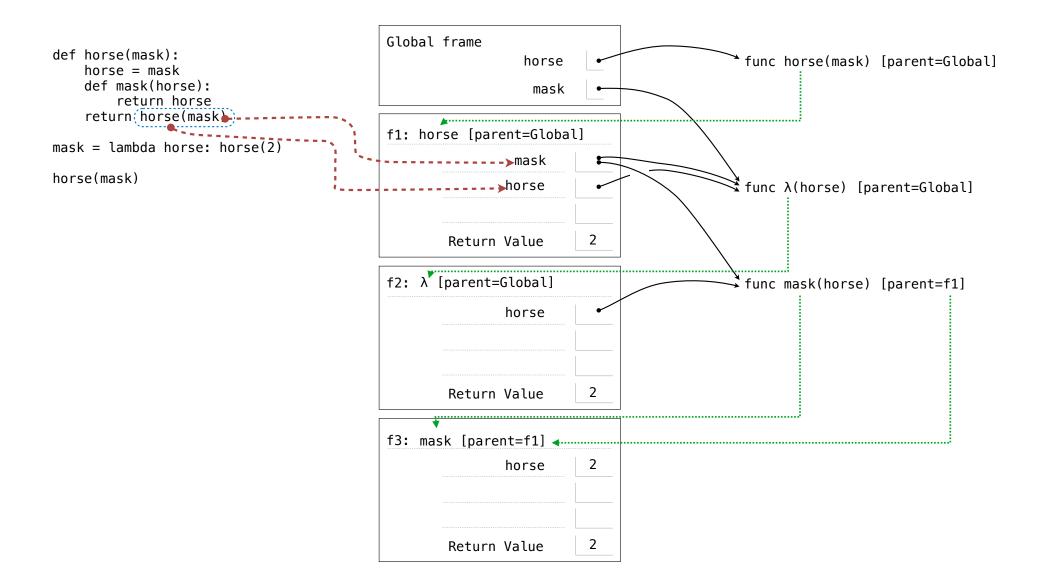
<pre>from operator import add, mul def square(x): return mul(x, x)</pre>	This expression	Evaluates to	Output
	5	5	5
A function that takes any argument and returns a function that returns that arg	print(5)	None	5
	<pre>print(print(5)) None</pre>	None	5 None
<pre>def (delay(arg): print('delayed') def g(): return (arg) return g</pre>	delay(delay)()(6)()	6	delayed delayed 6
Names in nested def statements can refer to their enclosing scope	<pre>print(delay(print)()(4))</pre>	None	delayed 4 None

What Would Python Print?

The print function returns None. It also displays its arguments (separated by spaces) when it is called.



A name evaluates to the value bound to that name in the earliest frame of the current environment in which that name is found.



Implementing Functions

Implementing a Function

```
def remove(n, digit):
    """Retung alimits of non-negative N
                       IT, for some
       231
                       IT less than 10.
   >>> remove(231, 3)
    21
                              + 20 + 30
   >>> remove(243132, 2)
    4313
                                     + 200
    111111
                                       231
                                21
    kept, digits = 0, 0
                   n > 0
   while
        n, last = n // 10, n % 10
                last != digit
                    18% kept + last*10**digits
                      digits + 1
     231
            digits =
                       kept
    return
```

Read the description

Verify the examples & pick a simple one

Read the template

Implement without the template, then change
your implementation to match the template.
OR

If the template is helpful, use it.

Annotate names with values from your chosen example

Write code to compute the result

Did you really return the right thing?

Check your solution with the other examples

Implementing a Function

```
def remove(n, digit):
"""Return all digits of non-negative N
                        IT, for some
       231
                        IT less than 10.
    >>> remove(231, 3)
    21
    >>> remove(243132, 2)
    4313
    111111
    kept, digits = 0, 0
                    n > 0
    while
        n, last = n // 10, n % 10
                 last != digit
                        kept/10 +
                                     last
             kept =
                       digits + 1
      21
             digits =
             round(kept * 10 ** (digits-1))
    return
```

Read the description

Verify the examples & pick a simple one

Read the template

Implement without the template, then change your implementation to match the template. **OR**

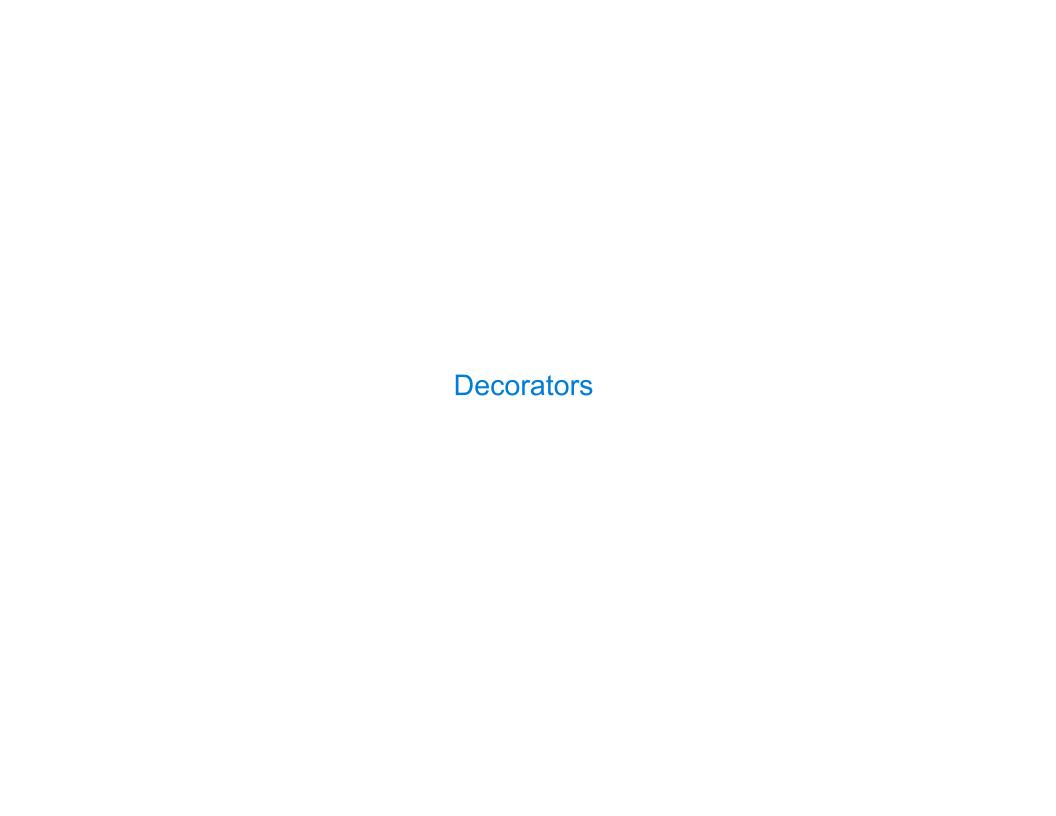
If the template is helpful, use it.

Annotate names with values from your chosen example

Write code to compute the result

Did you really return the right thing?

Check your solution with the other examples



Function Decorators

