Function Examples

Announcements

Your

name

could

be

here

Hog Contest Rules

 Up to two people submit one entry; Max of one entry per person

- Slight rule changes
- 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
- All winning entries will receive
- 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

cs61a.org/proj/hog_contest

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

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





Testing	Test-Driven Development Write the test of a function before you write the function. A test will clarify the domain, range, & behavior of a function. Tests can help identify tricky edge cases. Develop incrementally and test each piece before moving on. You can't depend upon code that hasn't been tested. Run your old tests again after you make new changes.
	Bonus idea: Run your code interactively. Don't be afraid to experiment with a function after you write it. Interactive sessions can become doctests. Just copy and paste. (Demo)





	What Would Python Display? The print function returns None. It also displays its arguments (separated by spaces) when it is called.
Review	from operator import add, mul def square(x): return mul(x, x) 5 5 5 5 A function that takes any print(5) None 5
	function that returns that arg print(print(5)) None 5 None
	def (delay(arg): print('delayed') delayed def g(): (delay(delay)()(6)() return arg 6
	Names in nested def statements can refer to their enclosing scope print(delay(print)()(4)) None 4 4 None

