Hog Contest Rules

- Up to two people submit one entry; 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 Du, Ziming Li
- Parker Schich & Robert Chatham

Fall 2012 Winners
- Chengyue Yuan
- Joseph Hui

Fall 2013 Winners
- Paul Brammen
- Sam Kumar & Kangsik Lee
- Kevin Chen

Fall 2014 Winners
- Allen Tong & Elaine Zhao
- Zheyang Zhang
- Adam Robert Villalba & Joomy Sun
- Zhen Qin & Dian Chen
- Zizheng Tai & Yifei Li

Boolean Favorites

```python
def mystery2(n):
    likes = is_prime
    k = n
    while k < n:
        if likes(k):
            if j != None and (k == None or i - j < k):
                k = i - j
                j = i
        i = i + 1
    return k
```

One approach:
1. Read the code
2. Read the description options
3. Consider an example

mystery2 prints the smallest difference between two positive integers below n that George likes.

There are no two such integers

mystery 2 returns ______ or returns None if ______. 

Describing Functions

```python
def mystery1(n):
    k = 1
    while k < n:
        if likes(n):
            print(k)
        k = k + 2
```

One approach:
1. Read the code
2. Read the description options
3. Consider an example

mystery 1 prints ______ less than n ______ .

Generating Environment Diagram
A Day at the Beach

def flip(flop):
    if flop:
        return None
    return flop

def flop(flip):
    return flop

flips = flop(1)
flips = flip(1)
flips = flop(1)