

# Hw6 review

TAs

# P3 NoisyCat

```
class NoisyCat(Cat):  
    """A Cat that repeats things twice.  
  
    >>> chocola = NoisyCat('Chocola', 'Minazuki Kashou')  
    >>> isinstance(chocola, Cat) # check if vanilla is an instance of Cat.  
    True  
    >>> chocola.talk()  
    Chocola says meow!  
    Chocola says meow!  
    """"  
  
    def talk(self):  
        """Talks twice as much as a regular cat.  
        """"  
  
        super().talk()  
        super().talk()
```



# P4 Fib

```
>>> start = Fib()
>>> start.value
0
>>> start.next().value
1
>>> start.next().next().value
1
>>> start.next().next().next().value
2
>>> start.next().next().next().next().value
3
>>> start.next().next().next().next().next().value
5
>>> start.next().next().next().next().next().next().value
8
>>> start.value # Ensure start isn't changed
0
.....
```

Fib(0)

Fib(1)

Fib(1)

Fib(2)

Fib(3)

$\text{Fib}(a) \dashrightarrow \text{Fib}(b)?$

$b = a + \text{last}(a)!$

Where is  $\text{last}(a)$ ?

在获得a的时候就把 $\text{last}(a)$ 存入a的instance里！

```
def __init__(self, value=0):  
    self.value = value
```

```
def next(self):  
    if self.value == 0:  
        n = Fib(1)  
    else:  
        n = Fib(self.value + self.previous)  
    n.previous = self.value  
    return n
```