



















```
Land Owners
Instance attributes are found before class attributes; class attributes are inherited
class Worker:
                                                  >>> Worker().work()
                                                                                 <class Worker>
    greeting = 'Sir'
def __init__(self):
                                                  'Sir, I work'
                                                                                  greeting: 'Sir'
    self.elf = Worker
def work(self):
                                                  >>> jack
                                                                                 <class Bourgeoisie>
                                                 Peon
         return self.greeting + ', I work'
     def __repr__(self):
                                                                                  greeting: 'Peon'
         return Bourgeoisie.greeting
                                                  >>> jack.work()
                                                  'Maam, I work'
                                                                                 jack <Worker>
class Bourgeoisie(Worker):
    greeting = 'Peon'
def work(self):
                                                  >>> john.work()
                                                                                  elf:
                                                 Peon, I work
'I gather wealth'
         print(Worker.work(self))
                                                                                  greeting: 'Maam'
         return 'I gather wealth'
                                                                                 john <Bourgeoisie>
                                                  >>> john.elf.work(john)
jack = Worker()
john = Bourgeoisie()
jack.greeting = 'Maam'
                                                  'Peon, I work'
                                                                                  elf:
```



Using Built-In Functions & Comprehensions

What are the indices of all elements in a list s that have the smallest absolute value?

$$\begin{bmatrix} -4, & -3, & -2, & 3, & 2, & 4 \\ 0 & 1 & 2 & 3 & 4 & 5 \end{bmatrix} \quad \begin{bmatrix} 2, & 4 \end{bmatrix} \qquad \begin{bmatrix} 1, & 2, & 3, & 4, & 5 \end{bmatrix} \quad \begin{bmatrix} 0 \end{bmatrix}$$

What's the largest sum of two adjacent elements in a list s? (Assume len(s) > 1)

Create a dictionary mapping each digit d to the lists of elements in s that end with d.

Does every element equal some other element in s?

Linked List Exercises

Is a linked list s ordered from least to greatest?

Is a linked list s ordered from least to greatest by absolute value (or a key function)?

Create a sorted Link containing all the elements of both sorted Links s & t.

Do the same thing, but never call Link.



Examples: Linked Lists