

Examples: Objects

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Instance attributes are found before class attributes; class attributes are inherited

```
class Worker:
    greeting = 'Sir'
```

Instance attributes are found before class attributes; class attributes are inherited

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class Worker:
    greeting = 'Sir'
    def __init__(self):
        self.elf = Worker
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Instance attributes are found before class attributes; class attributes are inherited

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class Worker:
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    def __init__(self):
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    def __repr__(self):
        return Bourgeoisie.greeting
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class Bourgeoisie(Worker):
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class Bourgeoisie(Worker):
    greeting = 'Peon'
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jack.greeting = 'Maam'
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Examples: Iterables & Iterators

	Using	Built-In	Functions	& Con	nprehensions
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What are the indices of all elements in a list s that have the smallest absolute value?

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$$[-4, -3, -2, 3, 2, 4]$$

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

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

6

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

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Does every element equal some other element in s?

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Does every element equal some other element in s?

Examples: Linked Lists

Is a linked list s ordered from least to greatest?

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,

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)?

8

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)?

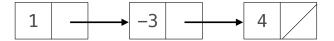


Is a linked list s ordered from least to greatest?



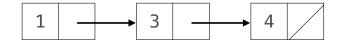


Is a linked list s ordered from least to greatest by absolute value (or a key function)?





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





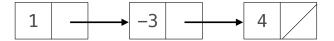
Create a sorted Link containing all the elements of both sorted Links s & t.

Is a linked list s ordered from least to greatest?



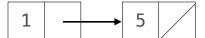


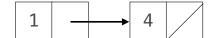
Is a linked list s ordered from least to greatest by absolute value (or a key function)?





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



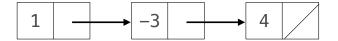


Is a linked list s ordered from least to greatest?





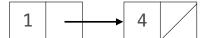
Is a linked list s ordered from least to greatest by absolute value (or a key function)?





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







8

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.



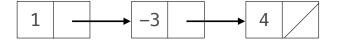
Do the same thing, but never call Link.

Is a linked list s ordered from least to greatest?



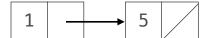


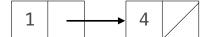
Is a linked list s ordered from least to greatest by absolute value (or a key function)?

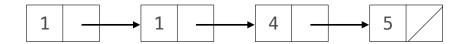




Create a sorted Link containing all the elements of both sorted Links s & t.







Do the same thing, but never call Link.





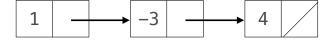
8

Is a linked list s ordered from least to greatest?



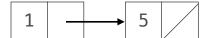


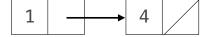
Is a linked list s ordered from least to greatest by absolute value (or a key function)?

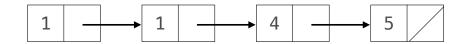




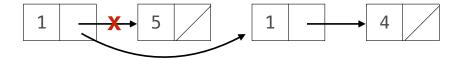
Create a sorted Link containing all the elements of both sorted Links s & t.







Do the same thing, but never call Link.

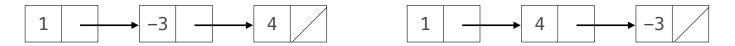


8

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.

