金融计算机第五周作业

——Part3&4&5&6

三、str 类型支持的各种操作和方法

```
name:{},age {}
name:Jack,age 21
abcghi
unsupported operand type(s) for -: 'str' and 'str'
=*==*==*==*==*==*==*==*=
unsupported operand type(s) for /: 'str' and 'int'
(base) PC@DESKTOP-FTJ84MN MINGWG4 ~/repo/week05 (main)
```

运行发现对于字符串的出发类型是不支持的

1.验证属性

1) 判断是否支持相等(==)

```
assert s == "aaaa"
```

增加一行代码,最终结果没有变化,即未报错,则说明是相等的

2) 比较运算符

```
print("abc" > "ABC")
print("123" > "abc")
```

True False

字符串也可以比较大小, 支持比较运算符

ASCII 编码字符排序

数字优先: 0-9 的数字在字符排序中优先,它们按照从小到大的顺序排列,即 0 在前,9 在后。这是因为在 ASCII 编码中,数字字符的编码值是连续且递增的。

大写字母其次: 在数字之后,是大写字母 A-Z 的排列。同样,它们在 ASCII 编码中也是连续且按照字母表顺序递增的,例如 A 的编码值小于 B 的编码值,所以 A 排在 B 前面。

小写字母最后: 小写字母 a-z 排在最后, 也是按照字母表顺序依次排列。在 ASCII 编码中, 小写字母的编码值大于大写字母和数字。例如, 'a' 的编码值大于 'Z' 的编码值。

字典序

也称为字典顺序或词典序,是一种对字符序 列进行排序的方法,类似于字典中单词的排 列方式。

对于两个字符序列,从左到右依次比较 对应位置的字符。在比较时,依据字符的编 码值(如 ASCII 码或 Unicode 码)来确定 字符的大小。

当遇到第一个不同的字符时,具有较小 编码值的字符所在的序列被认为是较小的 序列,即排在前面。

如果一个序列是另一个序列的前缀,那 么较短的序列排在前面。

```
print("abc" > "ABC")
print("123" > "abc")
print("9" > ".")
print("9" < ":")
print("book" < "box")
print(() book" < "{"[)</pre>
```

```
True
False
True
True
True
True
True
True
```

- 一些讲一步的例子
- 3) 是否可迭代

```
s = "book"
print(iter(s))
```

<str_ascii_iterator object at 0x000001B1DCC15840>

使用 iter()可以看是否可以迭代 使用 for 循环进行迭代

```
for c in s:

print(c)

b
o
```

4) 是否支持返回长度

```
print(len(s))
```

4

0

k

字符串有长度的概念

5) 如何支持索引操作

```
s = "book"
assert s[1:3] == "oo"
# 1是包含的,3是不包含的,1到3是2个距离,所以是2个字母
```

```
(base) PC@DESKTOP-FTJ84MN MINGW64 ~/repo/week05 (main) $ |
```

最后未报错,说明代码中内容正确 6)

```
(Pdb) import wax

(Pdb) wat /s.translate

Julie: built-in method translate of str object at 0x00000221C0D917A0-

type: builtin.function.or.method

signature: def translate(table, /)

Replace each character in the string using the given translation table.

table

Translation table, which must be a mapping of Unicode ordinals to

Unicode ordinals, strings, or None.

The table must implement lookum/indexing via __getitem__, for instance a

dictionary or list. if fits operation raises lookupperror, the character is

left untouched. Characters mapped to None are deleted.
```

常用的是

①capitalize--字符串的第一个字母大写

```
s = "the book of why"
print(s.capitalize())
print(s)
```

The book of why the book of why

②Count 的作用:

```
s = "the book of why took noooo"
print(s.count("o"))
print(s.count("oo"))
```

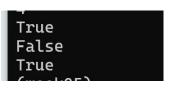
```
9
4
```

③s.endwith

endswith 是字符串对象的内置方法,它可以 判断字符串是否以指定的后缀结束,同时还 能指定开始和结束的索引范围

```
# 检查字符串是否以指定后缀结尾

text = "Hello, world!"
print(text.endswith("world!")) # 輸出: True
print(text.endswith("Hello")) # 輸出: False
# 使用元组检查多个后缀
print(text.endswith(("world!", "Python"))) # 輸出: True
```



(4)s.index

index 是一个常用的方法,可用于字符串、列表、元组等序列类型,用于查找某个元素首次出现的索引位置

```
str_example = "Hello, World!"
print(str_example.index("World"))
# 輸出 7, 因为 "World" 从原字符串的第 7 个位置开始 (索引从 0 计数)
```

True 7 (wook95)

⑤s.isalnum

isalnum 是字符串对象的一个内置方法。如果字符串中的所有字符都是字母(大写或小写)或者数字,并且字符串至少有一个字符,那么该方法返回 True; 否则返回 False

```
28 # 包含字母和数字的字符串
29 string1 = "abc123"
print(string1.isalnum()) # 輸出: True
31 # 包含特殊字符的字符串
32 string2 = "abc@123"
33 print(string2.isalnum()) # 輸出: False
4 # 空字符串
35 string3 = ""
36 print(string3.isalnum()) # 輸出: False
```

True False False

```
137

138 print("abc123".isalnum())

139 print("abc123 ".isalnum())
```

True False

6s.isidentifier

isidentifier 是 Python 字符串对象的一个内置 方法,用于判断一个字符串是否是有效的 Python 标识符。

- •标识符只能由字母(大写或小写)、数字和下划线组成。
- 标识符不能以数字开头。
- 标识符不能是 Python 的关键字(如 if、else、for 等)

```
print("abc123".isidentifier())
print("123abc".isidentifier())
print("abc_123".isidentifier())
```

True False True

7s.join

join 是数组对象的方法,它将数组中的所有 元素连接成一个字符串,并返回该字符串。 元素之间用指定的分隔符分隔,如果省略分 隔符,默认使用逗号

```
# 使用逗号作为分隔符连接列表元素
my_list = ["apple", "banana", "cherry"]
result = ", ".join(my_list)
print(result)
# 輸出: apple, banana, cherry
# 使用空字符串连接元组元素
my_tuple = ("Hello", "World")
result = "".join(my_tuple)
print(result)
# 輸出: HelloWorld
```

apple, banana, cherry HelloWorld

8s.strip

在 Python 里, strip 是字符串对象的内置方法,它有三种形式,分别是 strip()、lstrip()和 rstrip()。

- strip(): 用于移除字符串首尾的指定字符, 若未指定字符,默认移除空白字符。
- lstrip(): 专门移除字符串左侧(开头)的 指定字符,默认移除空白字符。
- rstrip(): 用于移除字符串右侧(结尾)的 指定字符,默认移除空白字符。

```
# 移除首尾空白字符
text1 = " Hello, World! "
print(text1.strip())
# 移除开头的空白字符
print(text1.lstrip())
# 移除结尾的空白字符
print(text1.rstrip())
# 移除结尾的空白字符
print(text1.rstrip())
# 移除指定字符
text2 = "---Hello, World!---"
print(text2.strip("-"))
```

```
Hello, World!
Hello, World!
Hello, World!
Hello, World!
```

9s.split

split 是字符串对象的内置方法,它可以根据 指定的分隔符将字符串分割成多个子字符 串,并返回一个列表。如果不指定分隔符, 默认会以空白字符(如空格、制表符、换行 符等)作为分隔符

```
# 使用空格作为分隔符分割字符串

text = "Hello World Python"

result = text.split()

print(result)

# 使用逗号作为分隔符分割字符串

text = "apple,banana,cherry"

result = text.split(",")

print(result)

# 指定最大分割次数

text = "apple,banana,cherry"

result = text.split(",", 1)

print(result)

print(result)

result = text.split(",", 1)
```

```
['Hello', 'World', 'Python']
['apple', 'banana', 'cherry']
['apple', 'banana,cherry']
```

四、bytes 编解码和 int 整数 1.bytes

```
$ python use_of_bytes.py
b'hello'
104
(week05)

* use_o(yes.py /...

from pathlib import Path

s = b"hello"
print(s)
print(s[0])

p = Path("C:\Users\\PC\\miniconda3\\envs\\week05\\python.exe")
```

Tips: 路径撰写,如果是前面写 r,那么就是单个反斜杠,否则双反斜杠,或写为:/c/Users/PC/miniconda3/envs/week05/python

```
--Return--

> c:\users\pc\repo\week05\use_of_bytes.py(24)<module>()->None

-> breakpoint()

(Pdb) p b

b\use\user\xa6\xa6\xa5\xbd'
 (Pdb) p p
WindowsPath('C:/Users/PC/miniconda3/envs/week05/python.exe')
(Pdb) p p.exists()
 (Pdb) p p.is_file()
True
(Pdb) p p.is_dir()
True
(Pdb) p p.is_dir()
                                                                b的结果如图画红线部分所示
                                                                  (Pdb) p b[1]
      Path("C:\\Users\\PC\\miniconda3\\envs\\week05\\python.exe")
                                                                  189
  s = p.read_bytes()
                                                                  (Pdb) p b[2]
  breakpoint()
                                                                  160
                                                                  (Pdb) p b[3]
                         ~/repo/week05 (main)
$ python use_of_bytes.py
b'hello'
104
93184
                                                                  229
                                                                  (Pdb) p bin(b[3])
                                                                  '0b11100101'
> c:\users\pc\repo\week05\use_of_bytes.py(10)<module>()->None
-> breakpoint()
                                                                  alue: <built-in method encode of str object at 0x000002589F931840>
ype: builtin_function_or_method
ignature: def encode(encoding='utf-8', errors='strict')
       p = Path("environment.yml")
       s = p.read_bytes()
L3
       print(s[0])
       breakpoint()
                                                                  (Pdb) p b
b'\xe4\xbd\xa0\xe5\xa5\xbd'
 (Pdb) p b.decode
<built-in method decode of bytes object at 0x000002589F9378A0>
                                                                  alue: <built-in method decode of bytes object at 0x000002589F9378A0>
                                                                  ype: builtin_function_or_method
ignature: def decode(encoding='utf-8', errors='strict')
s.decode()
是解码的代码,解码后变为字符串
      p = Path("environment.yml")
     b = p.read_bytes()
     print(b[0])
     s = b.decode()
                                                                          s = "你好"
                                                                 21
      assert isinstance(s, str)
     breakpoint()
                                                                 22
                                                                          b1 = s.encode()
                                                                 23
                                                                          print(b1)
**Sython use_of_bytes.py b'hello' 104 93184 110 --Return--> c:\useparts.py britished.
                                                                 24
                                                                          b2 = s.encode("gbk")
                                                                 25
                                                                          print(b2)
                                                                 26
                                                                          breakpoint()
 .c:\users\pc\repo\week05\use_of_bytes.py(17)<module>()->None
-> breakpoint()
没有报错说明 assert 那一行为正确的
                                                                 b'\xe4\xbd\xa0\xe5\xa5\xbd'
                                                                 b'\xc4\xe3\xba\xc3'
     s = b.decode()
                                                                  --Return-
      assert isinstance(s, str)
                                                                 > c:\users\pc\repo\week05\use_of_bytes.py(2
     b2 = s.encode()
                                                                 -> breakpoint()
     assert isinstance(b2, bytes)
                                                                Emoji 打印出来还是 emoji 没有变化
    breakpoint()
                                                                        print(b2)
                                                                26
                                                                        s = "abc你好参"
运行结果仍未报错,说明代码内容为正确的
                                                                27
                                                                        print(s)
                                                                       vas, cas, cas, obtidastess,
       s = "你好"
                                                                   b'\xc4\xe3\xba\xc3'
       b = s.encode()
                                                                   abc你好 🤣
```

-Return-

```
(Pdb) p b
b'abc\xe4\xbd\xa6\xe5\xa5\xbd\xf6\x9f\xa4\xa3'
(Pdb) p b[3:
*** SyntaxError: '[' was never closed
(Pdb) p b[3:]
b'\xe4\xbd\xa6\xe5\xa5\xbd\xf6\x9f\xa4\xa3'
(Pdb) p b[3:]. decode
built-in method decode of bytes object at 0x0000019555F3B540>
(Pdb) p b[3:9]
b'\xe4\xbd\xa6\xe5\xa5\xbd\xf6\xbd\
(Pdb) p b[3:9]. decode()
'你好'
(Pdb) p b[3:].decode()
```

通过解码得到结果

Decode 是解码

Encode 是编码

总称为:编解码

2.int 整数

运行结果未产生报错

```
9 assert 5
10 # assert 0 这个会报错
11 ~ try:
12 assert 0
13 ~ except AssertionError as e:
14 print(type(e))
15
16 breakpoint()
```

```
$ python use_of_int.py
<class 'AssertionError'>
--Return--
> c:\users\pc\repo\week05\use_of_int.py(16)<module>()->None
-> breakpoint()
(pdb) |
```

整数不能循环迭代

五、float~dict 等类型

1.float 浮点数

```
import random

x = 3.14
print(type(x))

y = float("3.14")
print(type(y))

assert x == y

x = 5 / 3
print(x, type(x))

x = random.random()
print(x)
```

```
PC@DESKTOP-FTJ84MN MINGW64 ~/repo/week0t

$ python use_of_float.py

<class 'float'>

1.666666666666666667 <class 'float'>

0.18702067879305495

(week05)

Pinf 是正无穷,ninf 是负无穷
```

```
Pinf 是正无穷, ninf 是负无穷
      nan = float("nan")
      print(nan + 3)
      print(nan > 3)
      print(nan < 3)</pre>
      print(nan == 3)
      pinf = float("inf")
     print(3.14e-2)
      print(pinf > 1e200)
      print(pinf > pinf)
      print(pinf == pinf)
      ninf = float("-inf")
 30
      print(ninf)
 nan
 False
 False
 False
 0.0314
 True
 False
 True
```

2.bool 布尔值

-inf

```
1  t = True
2  f = False
3  print(t, f)
4
5  print(type(t))
6  print(isinstance(t, int))
7
```

```
pc@DESKIOP-FIJ84MN MINGW64 ~/repo/W

$ python use_of_bool.py

True False

<class 'bool'>

True

(week05)
```

3.list 列表

```
[1, 5, 'abc']
1
5
abc
list index out of range
abc
b
> c:\users\pc\repo\week05\use_of_list.py(17)<module>()
-> a = [2, 5]
```

```
16  a = [2, 5]

17  b = ["a", "c"]

18  print(a + b)

19  print(b + a)

20  print(a + b == b + a)
```

```
[2, 5, 'a', 'c']
['a', 'c', 2, 5]
False
```

列表没有加法交换律

```
False unsupported operand type(s) for -: 'list' and 'list' [2, 5, 2, 5, 2, 5] [2, 5] [2, 5, 2, 5, 2, 5] (week05)
```

列表不能做减法

```
unsupported operand type(s) for -:
[2, 5, 2, 5, 2, 5]
[9, 5]
[2, 5, 2, 5, 2, 5]
(week [9])
```

a被修改,b没有被修改

```
b=[[2, 5], [2, 5], [2, 5]]
[9, 5]
[[9, 5], [9, 5], [9, 5]]
```

在修改的时候一定要关注修改的对象到底 是谁,修改结果是什么!!!

对象思维!!!

```
a = [2, 5, 3]
b = [i**2 for i in a]
print(b)
b = [i**2 for i in a if i < 4]
print(b)</pre>
```

```
[4, 25, 9]
[4, 9]
```

```
51  a = [2, 5]
52  b = [a] * 3
53  print(f"{b=}")
54  x = a.append(4)
55  print(x)
56  print(a)
57  print(b)
```

```
b=[[2, 5], [2, 5], [2, 5]]
None
[2, 5, 4]
[[2, 5, 4], [2, 5, 4], [2, 5, 4]]
```

4.dict 字典

```
use_of_dict.py > ...
    d = {"a": 1, "bb": 5, "cat": 3}
    print(d)
    print(type(d))
4
```

```
(week05)
PC@DESKTOP-FTJ84MN MINGW64 ~/repo/week05
$ python use_of_dict.py
{'a': 1, 'bb': 5, 'cat': 3}
<class 'dict'>
(week05)
```

```
(Pdb) p hash(a)

*** NameError: name 'a' is not defined
(Pdb) p hash('a')

5548808752271961701
(Pdb) p hash("bb")

-2655163597640989224
(Pdb) p hash('cat')

367965299787961372
(Pdb) p hash('1')
6150698839999558805
(Pdb) p hash(1)

1
(Pdb) p hash('2')

-5049262116855861426
(Pdb) p hash(2)

2
(Pdb)
```

Hash 得到的是哈希值

哈希值(Hash Value),也称为散列值或哈 希码,是通过特定的哈希函数对数据(如文 件、字符串、图像等)进行计算后得到的固 定长度的数值。

```
1
5
3
1
5
3
[('a', 1), ('bb', 5), ('cat', 3)]
a 1
bb 5
cat 3
--Return--
```

```
(Pdb) p d
{'a': 1, 'bb': 5, 'cat': 3}
(Pdb) p d['bbb']

*** KeyError: 'bbb'
(Pdb) p d.get('bb')
5
(Pdb) p d.get('bb',0)
5
(Pdb) p d.pop('bb')
5
(Pdb) p d
{'a': 1, 'cat': 3}
(Pdb) p d
{'a': 1, 'cat': 3, 'bb': 0}
```

setdefault 是 Python 字典(dict)对象的一个方法,主要用于在字典中查找指定的键,如果该键存在,就返回其对应的值;如果该键不存在,就会在字典中插入这个键,并为其设置一个默认值,然后返回这个默认值

六、tuple~date 等类型

1.tuple 元组()

```
PCMDESHTOP-FTJ8UNN MINGW6U ~/repo/week05 (main)

$ python use_of_tuple.py
(1, 'a', 3.14)

<class 'tuple'>
1
a
3.14
'tuple' object does not support item assignment
--Return--
> c:\users\pc\repo\week05\use_of_tuple.py(14)<module>()->None
-> breakpoint()
```

元组和列表的区别

breakpoint()

14

大多数情况下列表比元组更强大,元组不可 修改的特性

字典中可修改的不可以成为键 key

(week05)

```
17 d[7] = 100

18 q = [3, 1]

19

20 try:

21 d[q] = 21

22 except TypeError as e:

23 print(e)

24

25 t = (3, 1)

26 d[t] = 21

27 print(d)

28 print(d[3, 1])
```

```
{'abc': 5}
unhashable type: 'list'
{'abc': 5, 7: 100, (3, 1): 21}
21
```

```
30 t = 1, 4, 0, 2

31 print(t)

32 print(type(t))
```

```
21
(1, 4, 0, 2)
<class 'tuple'>
(week05)
```

2.set 集合{}

```
1 s = {1, 4, 0, 2}

2 print(s)

3 print(type(s))
```

\$ python use_of_set.py
{0, 1, 2, 4}
<class 'set'>
(week05)

unhashable type: 'list'

```
10 q = [1, 2, 1, 2, 5, 1]

11 print(q)

12 s = set(q)

13 print(s)
```

```
unhashable type: 'list'
[1, 2, 1, 2, 5, 1]
{1, 2, 5}
(week05)
```

集合可以唯一化

```
{1, 2, 5}
True
False
--Return--
> c:\users\pc\repo\week05\use_of_set.py(19)<module>()->None
-> breakpoint()
```

```
20 s2 = {3, 2, 3}

21 print(s | s2)

22 print(s & s2)

23 print(s ^ s2)
```

```
{1, 2, 3, 5}
{2}
{1, 3, 5}
```

|是并集的意思, &是交集的意思, ^是并行 差的意思

3.pathlib 模块

```
from pathlib import Path

p = Path(".")
print(p)
print(p.exists())
breakpoint()
```

```
PC@DESKTOP-FTJ84MN MINGW64 ~/repo/week05 (main)

$ python use_of_path.py
.
True
--Return--
> c:\users\pc\repo\week05\use_of_path.py(6)<module>()->None
-> breakpoint()
(ndb) |
```

```
(Pdb) import wat

(Pdb) mat / p

str: ...

repr: WindowsPath(...)

type: pathlib.WindowsPath
parents: pathlib.Path, pathlib.PureWindowsPath, pathlib.PurePath

Public attributes:
anchor: str = ...

drive: str = ...

name: str = ...

parent: pathlib.WindowsPath = ...
parents: pathlib.PathParents = ...

parents: pathlib.PathParents = ...

parents: pathlib.PathParents = ...

parents: pathlib.PathParents = ...

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```

```
def home() # Return a new path pointing to the user's home directory (as...
def is absolute() # True if the path is absolute (has both a root and, if is
def is block device() # Whether this path is a block device.
def is char.device() # Whether this path is a block device.
def is.char.device() # Whether this path is a character device.
def is.div() # Whether this path is a directory.
def is.fife() # Whether this path is a directory.
def is.fife() # Whether this path is a function.
def is.mount() # Check if this path is a regular file (also True for symlink
def is.mount() # Check if this path is a rount point
def is.mount() # Check if this path is a mount point
def is.relative.to(other, /, *_deprecated) # Return True if the path is rel
ther path or False.
def is_reserved() # Return True if the path contains one of the special nam
def is_socket() # Whether this path is a socket.
def is_symlink() # Whether this path is a soymbolic link.
def iterd(r) # Yield path objects of the directory contents...
def iterd(r) # Yield path objects of the directory contents...
def iterd(mode) # Like chmod(), except if the path points to a symlink, the sym
def match(path_pathern, *, case_sensitive=None) # Return True if this path
given pather.
def open(mode='r', buffering=-1, encoding=None, errors=None, newline=None)
ile pointed to by this path and return a file object, as...
```

在 pathlib 模块中, Path 类有 absolute() 方法。

•功能:将相对路径转换为绝对路径,简单通过追加当前工作目录来实现,不会展开符号链接和解析相对路径标记(如..和.)。比如当前工作目录是/home/user,有相对路径 test.txt, Path('test.txt').absolute()会得到/home/user/test.txt。

```
from pathlib import Path

print(p)
print(p.exists())
print(list(p.iterdir()))

print(p.exists())
print(p.exists())
print(p.exists())
print(p.exists())
print(p.exists())
print(p.exists())
print(p.exists())
print(p.exists())
print(p.exists())
```

```
$ python use_of_path.py

True

(C)\Users\PC\repo\weelo5

[WindowsPath('git'), WindowsPath('gitignore'), WindowsPath('env'), WindowsPath('env')

(windowsPath('use_of_bot'), WindowsPath('README.md'), WindowsPath('use_of_bot.py'), WindowsPath('use_of_bot.py'), WindowsPath('use_of_list.py'), WindowsPath('use_of_list.py'), WindowsPath('use_of_list.py'), WindowsPath('use_of_st_list.py'), WindowsPath('use_of_st_list.
```

```
p = Path("./datal")
print(p.exists())
p.mkdir(exist_ok=True)
print(p.exists())
print(p.is_dir())

p = Path(".")
p2 = p / "README.md"
print(p2)
p3 = p2.absolute()
```

```
建同鹽解決.pdf'), WindowsPath('金融计算机第五周作业.pdf')]
True
True
True
C:\Users\PC\repo\week05\README.md
--Retzurn--
> c:\users\pc\repo\week05\use_of_path.py(20)<module>()->None
-> breakpoint()
(Pdh)
```

在前面的 mkdir 后面加上一小段代码,再运 行下面的代码,才能够不报错

4.datetime 模块

print(p3)
breakpoint()

```
(Week05)
PC@DESKTOP-FTJ84MN MINGW64 ~/repo/week05 (main)
$ python use_of_date.py
191 days, 0:00:00
<class 'datetime.timedelta'>
191
--Return--
> c:\users\pc\repo\week05\use_of_date.py(12)<module>()->None
-> breakpoint()
(Pdb) |
```

```
(Pdb) p datetime.striptime(s1)

*** AttributeError: type object 'datetime.datetime' has no attribute 'striptime'. Did you mean: 'striptime'?

(Pdb) p datetime.striptime(s1)

***Objective.strine(2014, 5, 29, 8, 0)

datetime.datetime(2014, 5, 29, 8, 0)

(Pdb) p datetime.striptime(s1, "%y-mm-%d").

*** SyntaxError: invalid syntax

(Pdb) p datetime.striptime(s1, "%y-mm-%d").

*** ValueError: time data '2824-05-23' does not match format '%y-%m-%d'
(Pdb))
```

```
s1 = "2024-05-23"

11     s2 = "2024-12-04"

12     d1 = datetime.strptime(s1, "%Y-%m-%d")

13     d2 = datetime.strptime(s2, "%Y-%m-%d")

14     print(d1)

15     print(d2)
```

```
191
2024-05-23 00:00:00
2024-12-04 00:00:00
--Return--
> c:\users\pc\repo\week05\use_of_date.py(17)<module>()->Non-
-> breakpoint()
```

```
(Pdb) p format(d1,'%a')
'Thu'
(Pdb) p format(d2,'%a')
'Wed'
(Pdb) p d1.strftime('%a')
'Thu'
(Pdb) p d2.strftime('%a')
'Wed'
(Pdb) p d2.strftime('%A')
'Wednesday'
(Pdb) p d2.strftime('%B')
'December'
(Pdb) p d1.strftime('%B')
'May'
```