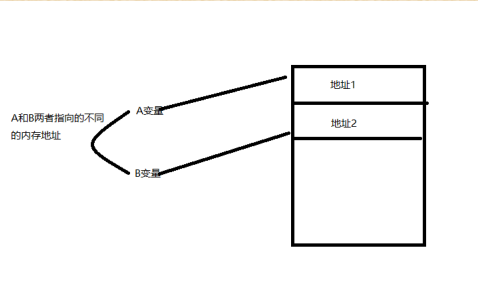


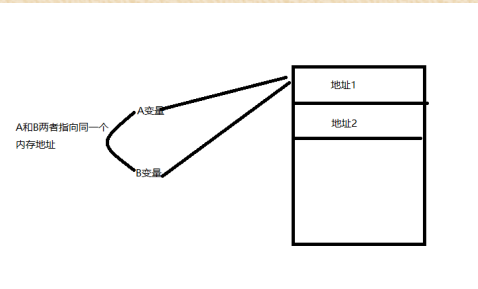
python_深拷贝与浅拷贝

一、深拷贝和浅拷贝的区分

深拷贝：A变量变化,B变量不受影响



浅拷贝：A变量变化,B变量跟着改变



常见的深拷贝和浅拷贝

浅拷贝：赋值 `l=list1` ,`l`和`list1`指向的同一块内存，两者一起变化

深拷贝：定义 `l=[1,2,3]` 切片赋值 `l=list1[:]` 深度复制 `l=copy.deepcopy(list1)`

程序举例：

1、赋值

```
list1=[1,2,3,4] #定义
```

```
list2=list1 #直接赋值给list2, 两者内存指向一个位置
```

```
for i in list1:
```

```
    if i%2: #奇数移除
```

```
        list1.remove(i)
```

```
print(list1)
```

```
print(list2)
```

```
D:\study\python\test\venv\Scripts\python.exe D:/study/python/test/dd.py
```

```
[2, 4]
```

```
[2, 4]
```

2、切片赋值

```
list1=[1,2,3,4] #定义
```

```
list2=list1[:] #切片赋值, 两者指向不同内存地址
```

```
for i in list1:
```

```
    if i%2: #奇数移除
```

```
        list1.remove(i)
```

```
print(list1)
```

```
print(list2)
```

```
D:\study\python\test\venv\Scripts\python.exe D:/study/python/test/dd.py
```

```
[2, 4]
```

```
[1, 2, 3, 4]
```

3、深度复制

```
import copy
```

```
list1=[1,2,3,4] #定义
```

```
list2=copy.deepcopy(list1)#深度复制，两者指向不同内存地址
```

```
for i in list1:
```

```
    if i%2: #奇数移除
```

```
        list1.remove(i)
```

```
print(list1)
```

```
print(list2)
```

```
D:\study\python\test\venv\Scripts\python.exe D:/study/python/test/dd.py
```

```
[2, 4]
```

```
[1, 2, 3, 4]
```

4、定义

```
list1=[1,2,3,4] #定义
```

```
list2=[1,2,3,4] #深度复制，两者指向不同内存地址
```

```
for i in list1:
```

```
    if i%2: #奇数移除
```

```
        list1.remove(i)
```

```
print(list1)
```

```
print(list2)
```

```
D:\study\python\test\venv\Scripts\python.exe D:/study/python/test/dd.py
```

```
[2, 4]
```

```
[1, 2, 3, 4]
```