

Python小练习：复制操作

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1. 浅复制

```
In [1]: # 复制的只是对象引用，而非对象本身
```

```
In [2]: x = [53, 68, ["A", "B", "C"]]
```

```
In [3]: y = x[:] # 浅复制
```

```
In [4]: x, y
```

```
Out[4]: ([53, 68, ['A', 'B', 'C']], [53, 68, ['A', 'B', 'C']])
```

```
In [5]: x [2] [0] = "Q"
```

```
In [6]: y [1] =40
```

```
In [7]: x, y
```

```
Out[7]: ([53, 68, ['Q', 'B', 'C']], [53, 40, ['Q', 'B', 'C']])
```

```
In [8]: # x里面一变，y也跟着相应变，但y变了，x相应元素并不会变
```

2. 深复制

```
In [9]: # 复制的是一个完全独立的副本
```

```
In [10]: import copy
```

```
In [11]: x = [53, 68, ["A", "B", "C"]]
```

```
In [12]: y = copy.deepcopy(x) # 深复制
```

```
In [13]: x, y
```

```
Out[13]: ([53, 68, ['A', 'B', 'C']], [53, 68, ['A', 'B', 'C']])
```

```
In [14]: x [2] [0] = "Q"
```

```
In [15]: y [1] =40
```

```
In [16]: x, y
```

```
Out[16]: ([53, 68, ['Q', 'B', 'C']], [53, 40, ['A', 'B', 'C']])
```

```
In [17]: # 这里x, y只改变自己的, 不会受到对方影响
```