



链滴

Python 实现排列和组合

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原文链接: <https://ld246.com/article/1364130790884>

来源网站: [链滴](#)

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<pre>无事可做用python实现的的排列和组合的算法，顺便也复习以下2.7中yield的用法

coding: utf8

```
def perm(items, n=None):
    if n is None:
        n = len(items)
    for i in range(len(items)):
        v = items[i:i + 1]
        if n == 1:
            yield v
        else:
            _items = items[:i] + items[i + 1:]
            for p in perm(_items):
                yield v + p
```

```
def comp(items, n=None):
    if n is None:
        n = len(items) - 1
    for i in range(len(items)):
        v = items[i:i + 1]
        if n == 1:
            yield v
        else:
            _items = items[i + 1:]
            for p in comp(_items, n - 1):
                yield v + p
```

```
for x in perm('123'):
    print(x)
```

```
print('-' * 20)
```

```
for x in comp('123', 2):
    print(x)
</pre>
```