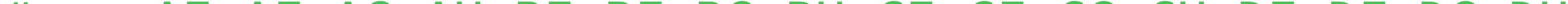
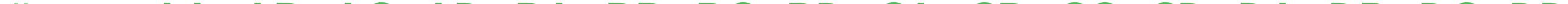
```
def            print    ''
```

'ABCD' 'EFGH'


=> AE AF AG AH BE BF BG BH CE CF CG CH DE DF DG DH

'ABCD' 2


=> AA AB AC AD BA BB BC BD CA CB CC CD DA DB DC DD

'ABCD' 2

```
# => AB AC AD BA BC BD CA CB CD DA DB DC
```

'ABCD' 2

```
# => AB AC AD BC BD CD
```

```
'ABCD'  2
```

```
# => AA AB AC AD BB BC BD CC CD DD
```

Combinatorics

```
def view(it): print(*map(''.join, it))

view(itertools.product('ABCD', 'EFGH'))
# => AE AF AG AH BE BF BG BH CE CF CG CH DE DF DG DH
view(itertools.product('ABCD', repeat=2))
# => AA AB AC AD BA BB BC BD CA CB CC CD DA DB DC DD

view(itertools.permutations('ABCD', 2))
# => AB AC AD BA BC BD CA CB CD DA DB DC

view(itertools.combinations('ABCD', 2))
# => AB AC AD BC BD CD

view(itertools.combinations_with_replacement('ABCD', 2))
# => AA AB AC AD BB BC BD CC CD DD
```

Infinite Iterators