

Awww?!

In python,  
**“Asterisk for unpack”**

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# asterisk (\*) in python 1/3

곱셈, 거듭제곱 연산

```
4 * 5, 2 ** 4
```

가변 위치/가변 키워드 parameter  
packing arguments

```
def func (*pVP, **pVK):  
    tuple dict
```

일부 컨테이너 데이터 반복 확장

```
[0] * 10, '-' * 30
```

컨테이너 데이터 unpacking

```
A = [1, 2, 3]; print(*A)
```

```
B = {'item': 'apple', 'cost': 2}  
x = '{item}_{cost}'.format(**B)
```

```
x, y, *remaining = [1, 2, 3, 4]
```

# asterisk (\*) in python 2/3

```
A=['apple', 'banana', 'orange']  
print(*A)
```

apple banana orange

```
print(A[0], A[1], A[2])
```

apple royal gala 2

```
A={'item':'apple', 'variety':'royal gala', 'cost':2}  
print('{item} {variety} {cost}'.format(**A))
```

```
print('{item} {variety} {cost}'. \  
format(item='apple', variety='royal gala', cost=2))
```

# asterisk (\*) in python 3/3

```
scores = [3, 4, 5, 6, 7, 8, 9]  
low, *middle, high = scores
```

```
print(low, middle, high)
```

```
3, [4, 5, 6, 7, 8], 9
```

결과를 예측해 보세요!

```
def func(LL):  
    return [ list(R) for R in zip(*LL) ]  
  
myLL = [[1, 2, 3], [4, 5, 6], [7, 8, 9]]  
print(func(myLL))
```