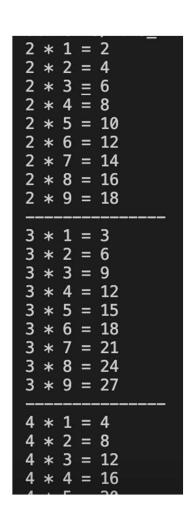
2023 N.E.T Python

Nested Loop

```
for i in range(2, 10):
    for j in range(1, 10):
        print(i , '*', j, '=', i * j)
    print('-----')
```



Continue & Break

```
i = 0
while True:
    print(i)
    i += 1
    if (i == 10):
        break
```

0123456789

indexing & operation

```
list = [ 'abcd', 786 , 2.23, 'john', 70.2 ]
tinylist = [123, 'john']

print(list)
print(list[0] )
print(list[1:3])
print(list[2:])
print(tinylist * 2)
print(list + tinylist)
```

```
['abcd', 786, 2.23, 'john', 70.2]
abcd
[786, 2.23]
[2.23, 'john', 70.2]
[123, 'john', 123, 'john']
['abcd', 786, 2.23, 'john', 70.2, 123, 'john']
```

input

```
inputList = list(map(int,input.split()))
```

change & delete

```
>>> a = [1, 2, 3]
>>> a[2] = 4
>>> a
[1, 2, 4]
```

```
>>> a = [1, 2, 3]
>>> del a[1]
>>> a
[1, 3]
```

length

```
a = [1, 2, 3]
length = len(a)
print(length)
```

• append(요소)

```
a = [1, 2, 3]
a.append(4)
print(a)

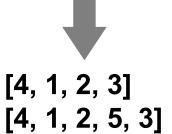
a.append([5, 6])
print(a)
```



[1, 2, 3, 4] [1, 2, 3, 4, [5, 6]] • insert(인덱스, 값)

```
a = [1, 2, 3]
a.insert(0, 4)
print(a)

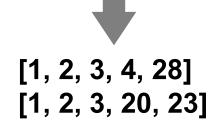
a.insert(3, 5)
print(a)
```



• extend(리스트)

```
a = [1, 2, 3]
a.extend([4, 28])
print(a)

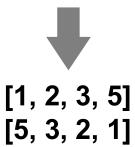
a.extend([20, 23])
print(a)
```



sort()

```
a = [1, 5, 3, 2]
a.sort()
print(a)

a.sort(reverse=True)
print(a)
```



reverse()

```
a = [1, 5, 3, 2]
a.reverse()
print(a)
```

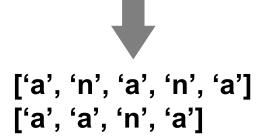


[2, 3, 5, 1]

• remove(값)

```
a = ['b', 'a', 'n', 'a', 'n', 'a']
a.remove('b')
print(a)

a.remove('n')
print(a)
```



pop()

```
a = [1, 2, 3]
a.pop()
print(a)
```



[1, 2]

Comprehension

1. Using loop [표현식 for 변수 in 범위]

```
[i for i in range(10)]
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

[i*3 for i in range(10)]
[0, 3, 6, 9, 12, 15, 18, 21, 24, 27]
```

Comprehension

2. Using Conditional [표현식 for 변수 in 범위 if문]

```
[i for i in range(10)]
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

[i for i in range(10) if i%2 == 0]
[0, 2, 4, 6, 8]
```

Comprehension

2. Using Conditional

```
[i for i in range(10)]
[0, 1, 2, 3, 4, 5, 6, 7, 8, 9]

['even' if i%2 == 0 else 'odd' i for i in range(10)]
['even', 'odd', 'even', 'odd', 'even', 'odd', 'even', 'odd', 'even', 'odd']
```

Tuple

```
tuple = ( 'abcd', 786 , 2.23, 'john', 70.2 )
tinytuple = (123, 'john')

print(tuple)
print(tuple[0])
print(tuple[1:3])
print(tuple[2:])
print(tinytuple * 2)
print(tuple + tinytuple)
```

```
('abcd', 786, 2.23, 'john', 70.2)
abcd
(786, 2.23)
(2.23, 'john', 70.2)
(123, 'john', 123, 'john')
('abcd', 786, 2.23, 'john', 70.2, 123, 'john')
```

Dictionary