

## python 从入门到实践 ch3 列表

在 [1] ... 

```
families = ['mom', 'dad', 'me']
print(families)
```

['mom', 'dad', 'me']

在 [3] ... 

```
print(families[0])
print(families[1])
print(families[2])
print(families[-1])
print(families[0].title())    # suoyin
```

mom  
dad  
me  
me  
Mom

在 [7] ... 

```
message = f'My favorite families are {families[0].title()}, {families[1].title()}'
print(message)
```

My favorite families are Mom,Dad,--and Me!

在[8]中: 

```
generators = ['flow', 'vae', 'diffusion']
print(generators)
generators[0] = 'gan'
print(generators)    # 直接改值
```

['flow', 'vae', 'diffusion']  
['gan', 'vae', 'diffusion']

在 [9] ... 

```
generators.append('flow')
print(generators)    # 从后添加
```

['gan', 'vae', 'diffusion', 'flow']

在 [10]... 

```
generators = []
print(generators)
generators.append('gan')
generators.append('vae')
generators.append('diffusion')
generators.append('flow')
print(generators)
```

[]  
['gan', 'vae', 'diffusion', 'flow']

在[22]中... 

```
generators = ['vae', 'diffusion', 'flow']
print(generators)
generators.insert(0, 'gan')
print(generators)    # 插入元素，其余右移
```

['vae', 'diffusion', 'flow']  
['gan', 'vae', 'diffusion', 'flow']

在[23]中... 

```
print(generators)
del generators[0]
print(generators)
```

```
['gan', 'vae', 'diffusion', 'flow']  
['vae', 'diffusion', 'flow']
```

在[25]中...

```
published_generator = generators.pop()  
print(generators)  
print(published_generator)  
print(f'My published paper is about {published_generator}!\nDo you kown that?')
```

['vae']  
diffusion  
My published paper is about diffusion!  
Do you kown that?

在[26]中...

```
generators = ['gan', 'vae', 'diffusion', 'flow']  
published_generator = generators.pop(2)  
print(f'My published paper is about {published_generator}!\nDo you kown that?')
```

My published paper is about diffusion!  
Do you kown that?

在[32]中...

```
generators = ['gan', 'vae', 'diffusion', 'flow']  
generators.remove('flow')  
print(generators)
```

None  
['gan', 'vae', 'diffusion']

在[31]中...

```
generators = ['gan', 'vae', 'diffusion', 'flow']  
unsuitable_generator = 'flow'  
generators.remove(unsuitable_generator)  
print(f'{unsuitable_generator.title()} is unsuitable for this project!')
```

Flow is unsuitable for this project!

在[33]中...

```
ISIDM_digital_twins_exports = ['Wang', 'Li', 'Song']  
ISIDM_digital_twins_exports.sort()  
print(ISIDM_digital_twins_exports)
```

['Li', 'Song', 'Wang']

在[35]中...

```
ISIDM_digital_twins_exports = ['Wang', 'Li', 'Song']  
print('Here is the original list:')  
print(ISIDM_digital_twins_exports)  
print('\nHere is the sorted list:')  
print(sorted(ISIDM_digital_twins_exports))  
print('\nHere is the original list again:')  
print(ISIDM_digital_twins_exports)
```

Here is the original list:  
['Wang', 'Li', 'Song']

Here is the sorted list:  
['Li', 'Song', 'Wang']

Here is the original list again:  
['Wang', 'Li', 'Song']

In [39]:

```
ISIDM_digital_twins_exports = ['Wang', 'Li', 'Song']  
ISIDM_digital_twins_exports.reverse()  
ISIDM_digital_twins_exports
```

Out[39]: ['Song', 'Li', 'Wang']

```
In [41]: print(f'There are {len(ISIDM_digital_twins_exports)} exports in digital twins fi
```

There are 3 exports in digital twins field will present in ISIDM 2025 Beijing!

```
In [ ]:
```