

# 2-5 循环 (2) : while

## while

while 循环 for 循环 while 循环

while 循环 while 循环

```
while 循环 :
```

```
    循环
```

循环 for 循环 while 循环

```
循环 = 循环
```

```
while 循环 <= 循环:
```

```
    循环
```

```
    循环 = 循环 + 循环()
```

循环

```
i = 3
sum = 0
while i < 13:
    sum = sum + i
    i = i + 3
print(sum)
```

while [ ]

[ ]

Q1. [ ] while [ ]

Ans [ ] break [ ]

[ ]

```
i = 1
while i < 6:
    print(i)
    if i == 3:
        break
    i += 1
```

2. [ ]

Ans [ ] continue [ ]

```
i = 0
while i < 6:
    i += 1
    if i == 3:
        continue
    print(i)
```

3. [ ]

Ans [ ] [Ctrl] + [C] [ ]

[ ]

for while

2

M N N! M

N N! 1\*2\*3\*...\*(n-1)\*n while N! M N

```
    
```

```
    M=1000
```

```
    
```

```
    7 5040 1000
```

3

(1~99)

\*

4

1: 2: 3:

0

random()

```
import random
```

