



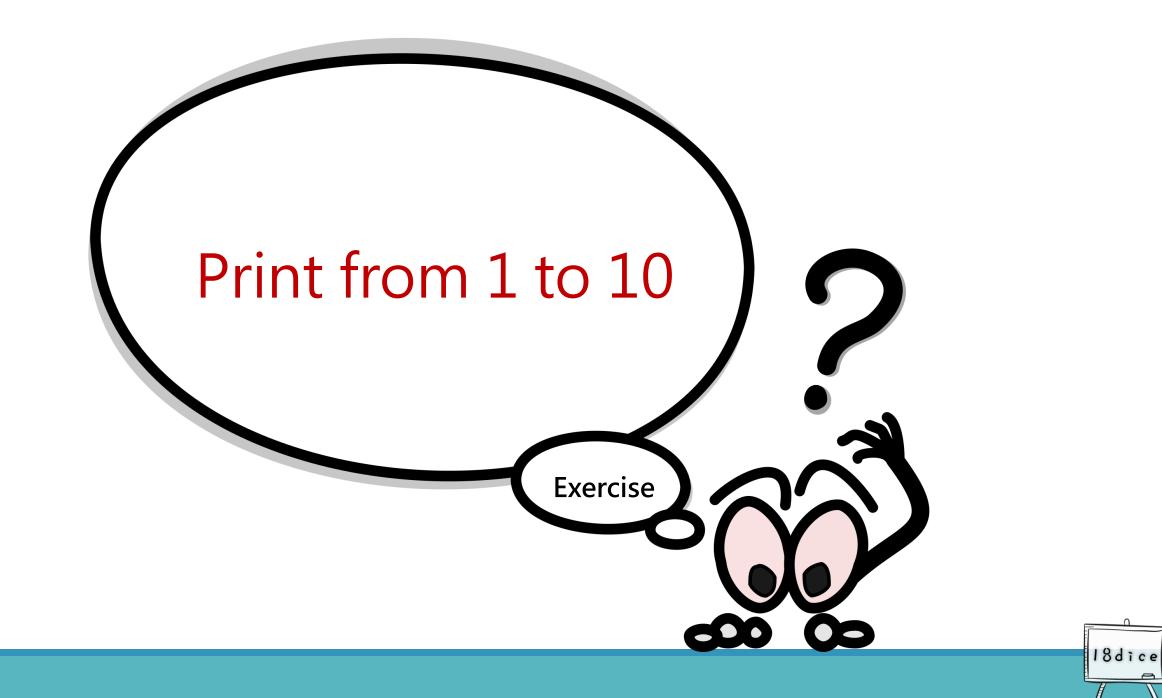
For and while are a family

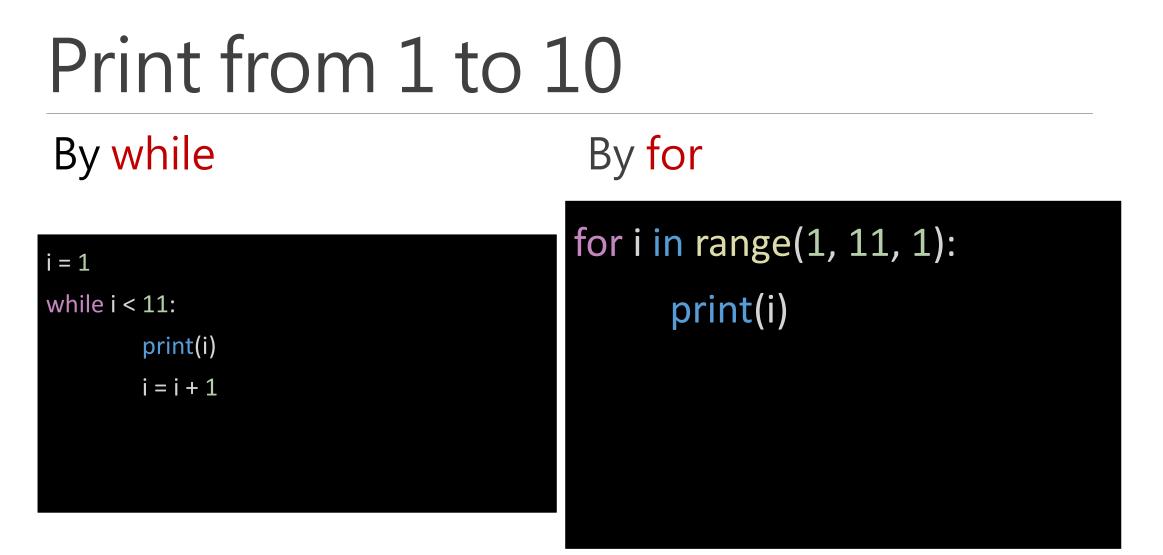
There are two duplicate structures in the Python language

Initial value while Conditional: statement Conditions change

for Control variables in Conditional range: statement



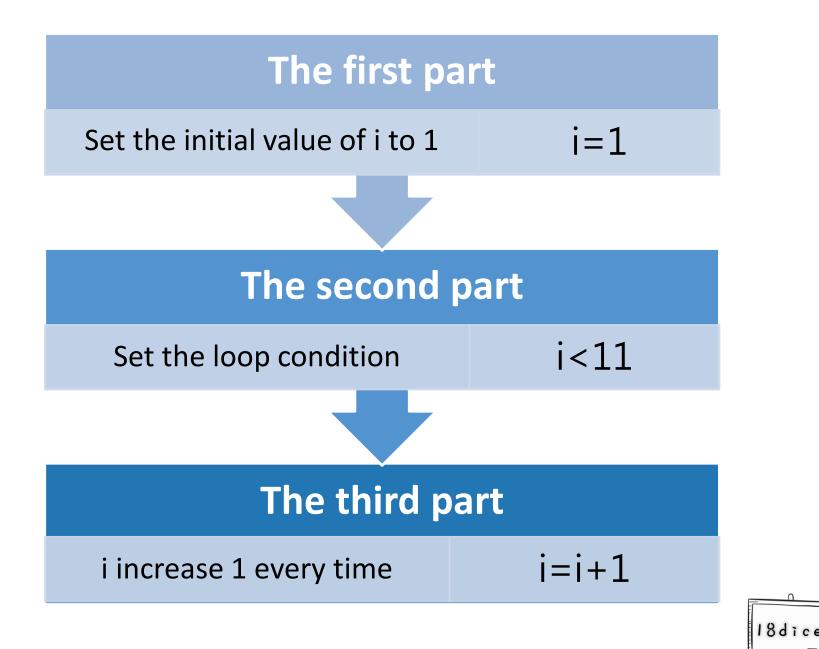






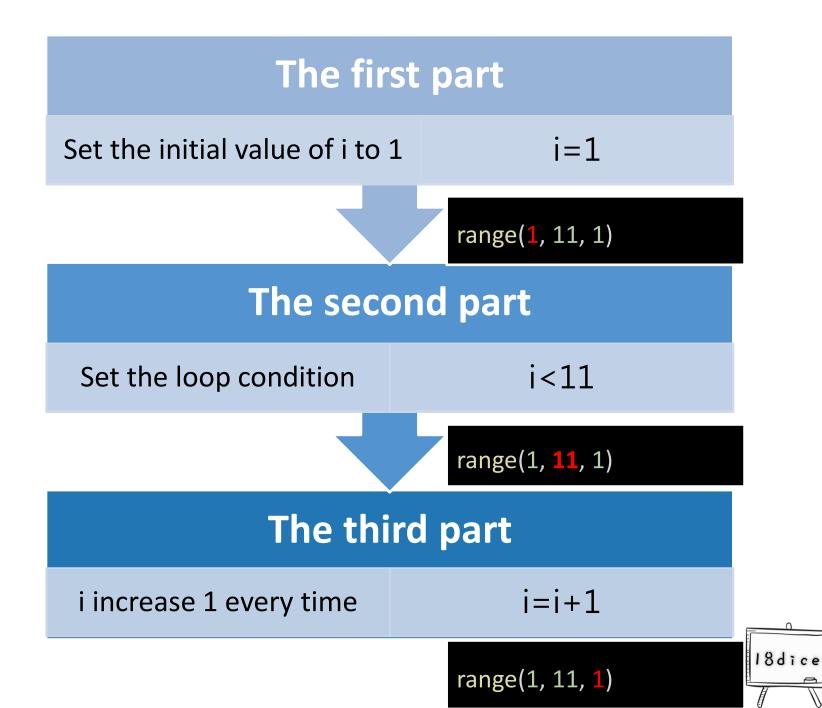
While loops :

Divided into 3 parts. Controlling the while loop to executed from 1 to 10.



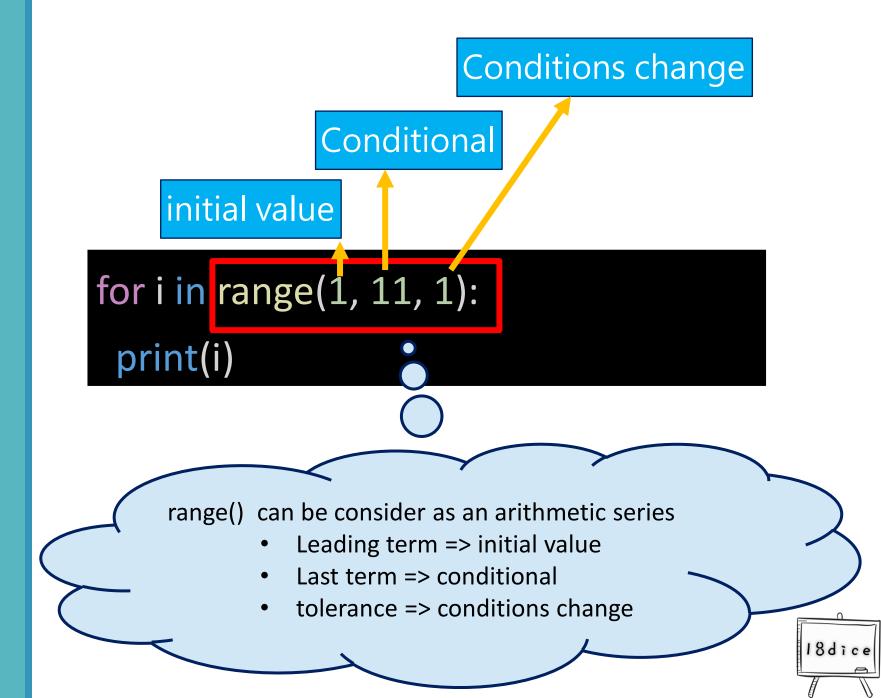
For loop:

Reduce the three parts of while to one line.



For loop:

Combine the initial value, conditional and conditions change into a conditional range.



Is for better than while?

Much more concise Suitable for loop's counting, such as repeat 100 times or repeat n times. But not every conditions is better than using while.



for is **much more concise**

Three parts.

Different situations have different circumstances. There is no absolutely good or bad between while and for.

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for is **more readable**

while usually needs go with an internal narrative to confirm the loop content.

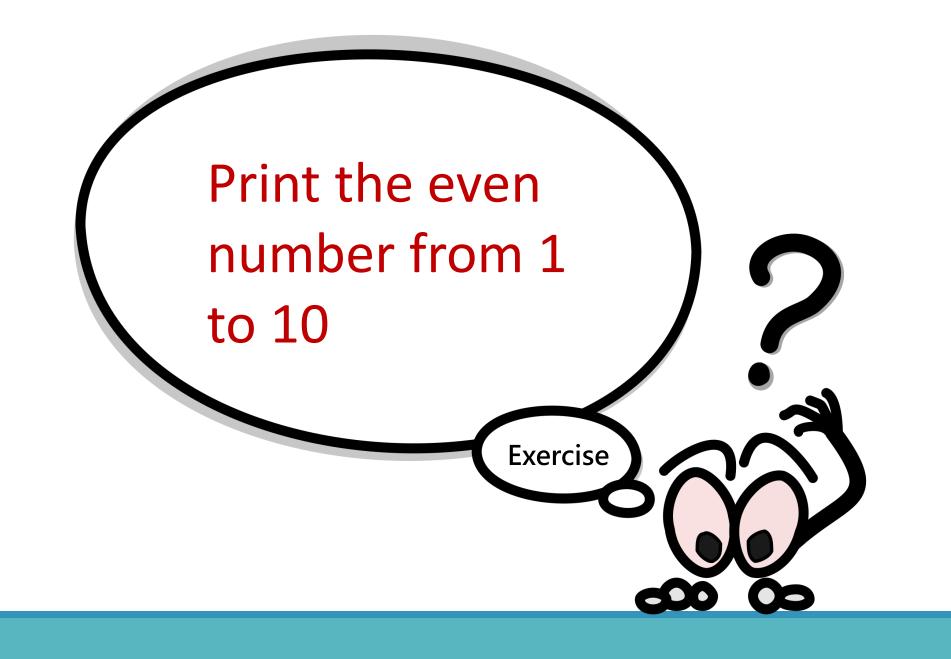
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while has more application range than for

You don't know when is the end, but you only know the end condition, does not apply for.

while is more dangerous than for

When the conditional setting of the while is incorrect. May cause unexpected infinite loops.





Print the even number from 1 to 10

By for

| i = 2 | |
|----------------|--|
| | |
| while i < 101: | |
| print(i) | |
| i = i + 2 | |
| | |
| | |
| | |

By while

for i in range(2, 101, 2): print(i)

