



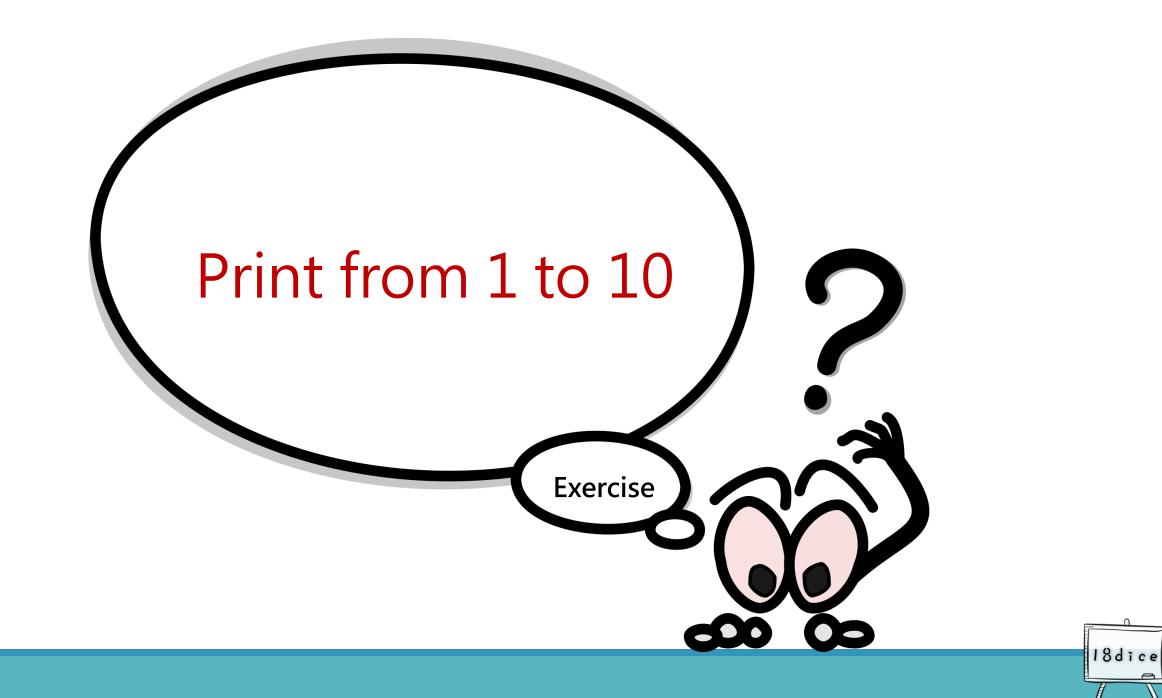
For and while are a family

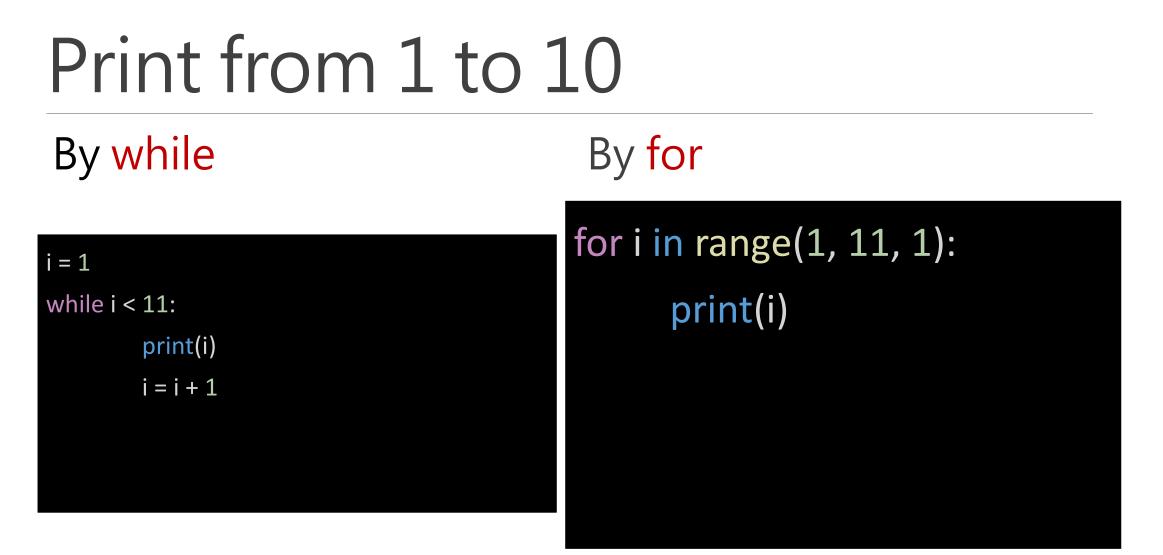
# There are two duplicate structures in the Python language

Initial value while Conditional: statement Conditions change

for Control variables in Conditional range: statement



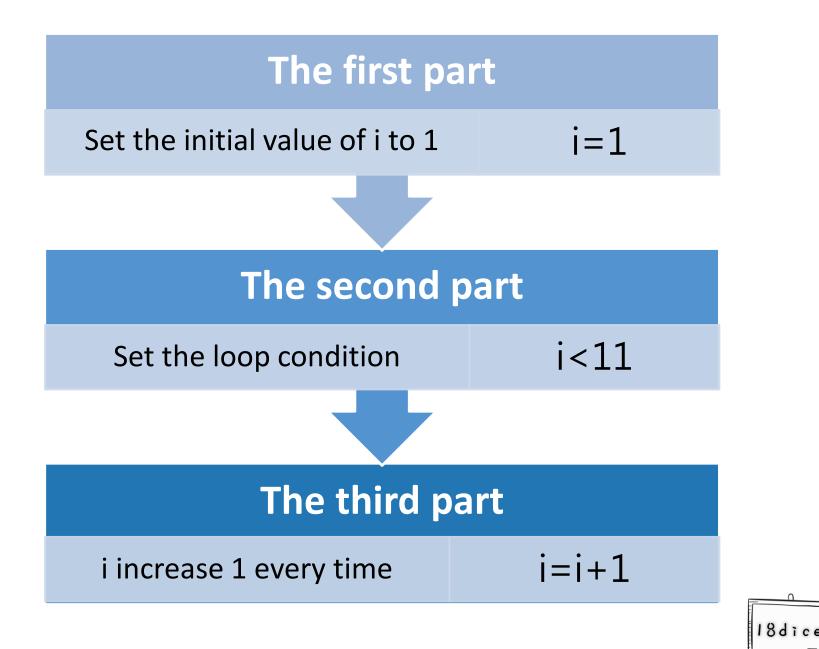






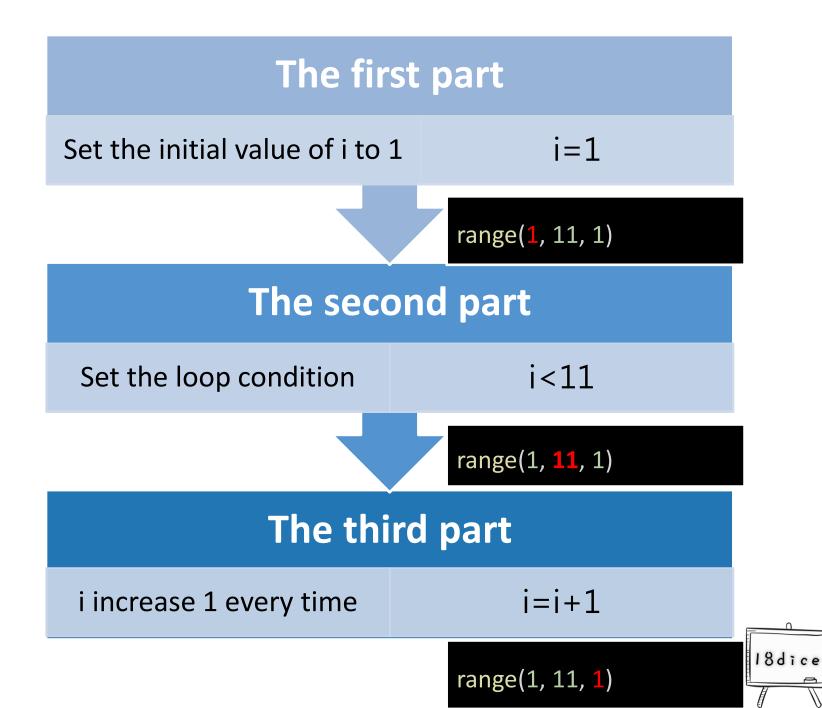
## While loops :

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



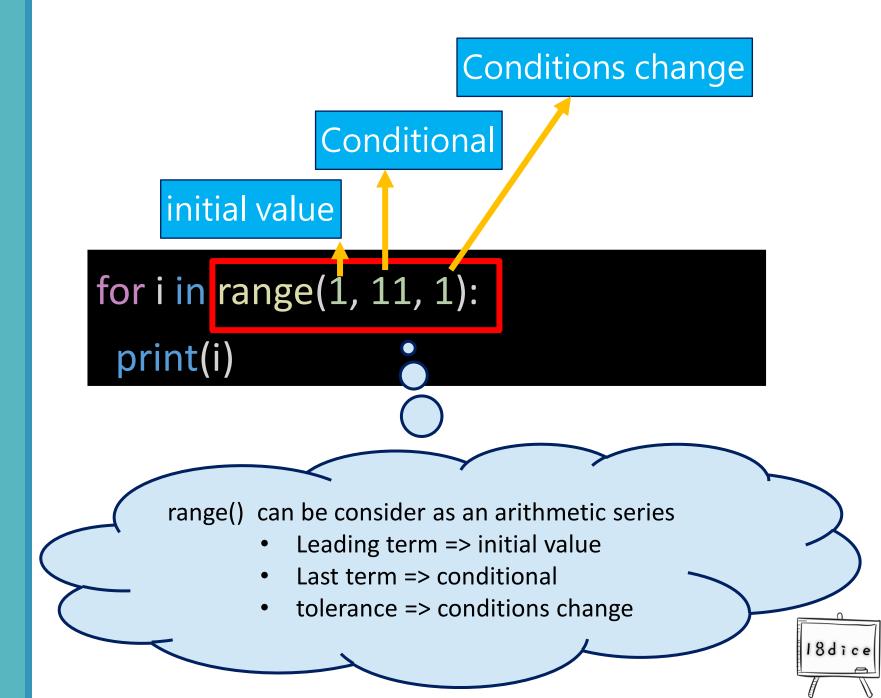
# For loop:

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.

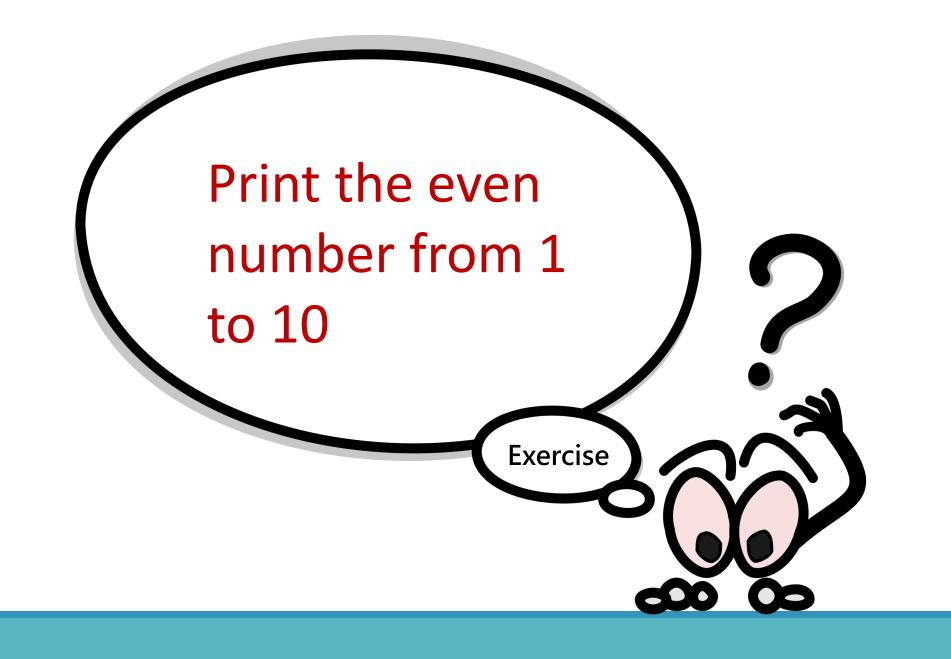
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#### while has more application range than for

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)

