Python 语言基础与应用

K05 验证 3x+1 问题

源代码截图:

```python
n = int(input("Please input a number : "))
cnt = 0
print(n)

while(n!=1):
  if((n%2)==0):
    n=n//2
    cnt+=1
    print(n)
  elif (n%2!=0):
    n = (n*3)+1
    cnt+=1
    print(n)

print("We totally loop it for",cnt,"times until it equal to one!")
```

··· Please input a number : 7

运行结果截图:

```
Please input a number : 7
7
22
11
34
17
52
26
13
40
20
10
5
16
8
4
2
1
We totally loop it for 16 times until it equal to one!
```