```
N=8
print("以下代码输出前%d个卡特兰数" % (N))
catalan=1
for i in range(1,N+1,1):
    print(i-1, int(catalan))
    catalan = catalan * (4*i-2) / (i+1)
```

▶

all

running...

```
import matplotlib.pyplot as plt
plt.plot([1,2,3, 4])
plt.show() # show figure
```

▶

all

running...

```
set xlabel "月份"

set ylabel "降水量"

set y2label "气温"
set ytics nomirror
set y2tics

set title '降水量与气温'
set xrange [0.5:12.5]
set xtics 1,1,12
set grid xtics ytics
set term pdfcairo lw 2 font
"OperatorLXGW,14"
set samples 50
set output "a.pdf"
plot "a.dat" u 1:2 w lp lc rgbcolor

"#b58900" lw 1 pt 7 ps 0.5 axis x1y1 t "北

京", "a.dat" u 1:3 w lp lc rgbcolor "#268bd2"

lw 1 pt 9 ps 0.5 dt 5 axis x1y2 t "上海"
set output
```

▶

all

running...
```

▶
all
running...