

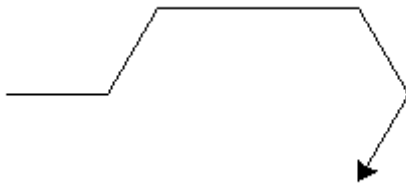
Listes des exemples du projets 1.

1 Tracer un mot

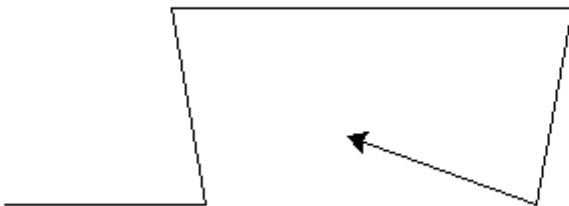
```
# 1  
tracelsysteme("AgAdAAdAdA",90,1)
```



```
tracelsysteme("AgAdAAdAdA", 60, 0.5)
```



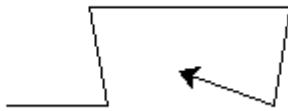
```
tracelsysteme("AgAdAAdAdA", 100,1)
```



```
tracelsysteme("AgAdAAdAdA",90,2)
```



```
tracelsysteme(echelle=0.5, mot="AgAdAAdAdA", angle=100)
tracelsysteme("AgAdAAdAdA", 100, 0.5)
```



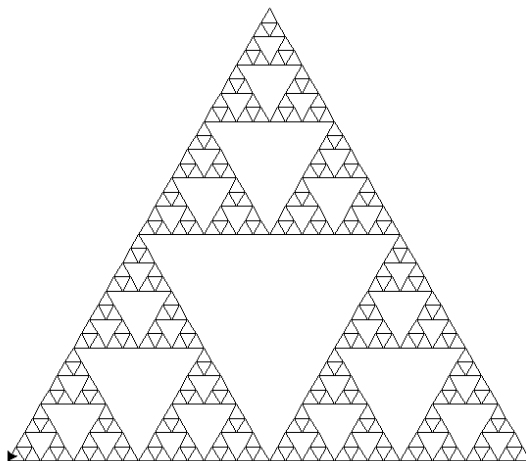
2 L-système avec une seule règle de remplacement

```
mot="BgAdB"
print([remplacer1(mot,"A","ABA")])
```

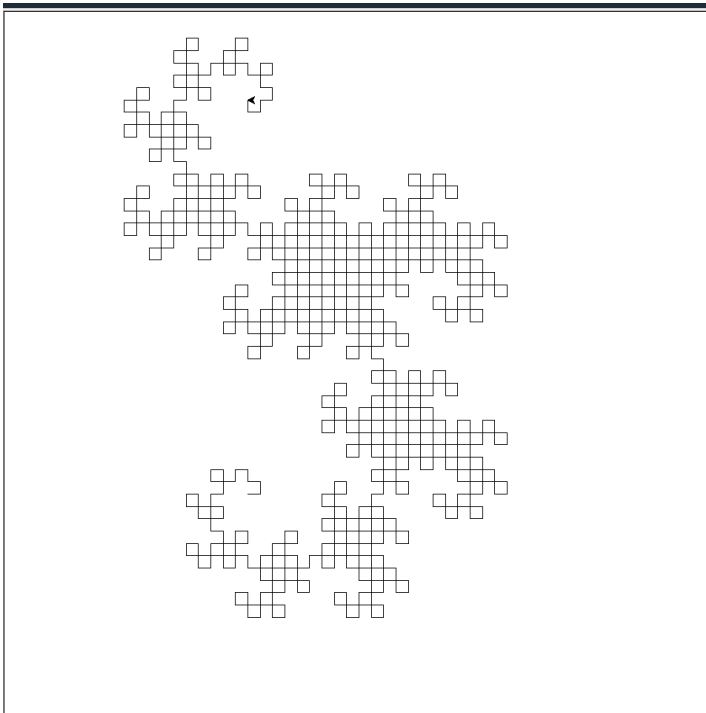
```
PS E:\NSI> python -u "e:\NSI\NSI TERMINALE\PROJETS\projets systemes.py"
BgABAdB
PS E:\NSI>
```

3 Avec deux règles de remplacement - Triangle de Sierpinski

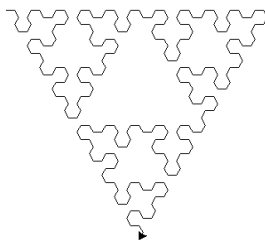
```
#Triangle de Sierpinski
tracelsysteme(iterelsysteme2("AdBdB", ("A", "AdBgAgBdA"), ("B", "BB"), 5), -120, 1/(5 + 1))
#done()
```



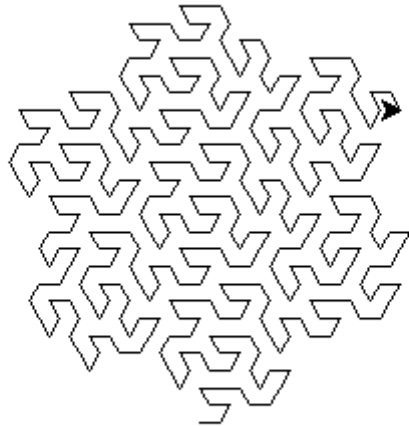
```
#La Courbe du dragon
tracelsysteme(iterelsysteme2("AX", ("X", "XgYAg"),("Y", "dAXdY"), 10), 90, 1/(5 + 1))
done()
```



```
# Une variante du triangle de Sierpinski
tracelsysteme(iterelsysteme2("A", ("A", "BdAdB"),("B", "AgBgA"), 5), 60, 1/10)
done()
```



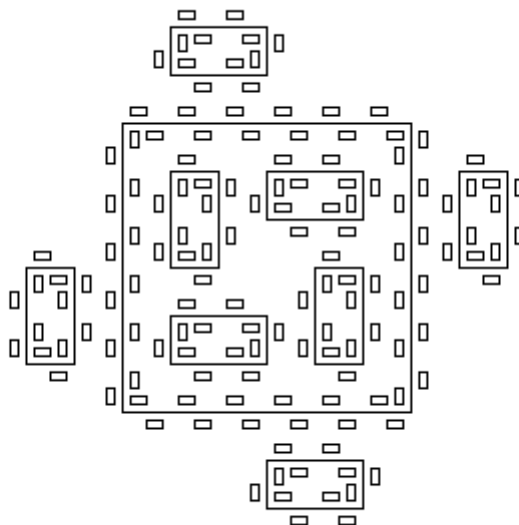
```
# La courbe de Gosper
tracelssysteme(iterelsysteme2("A", ("A", "AgBggBdAddAAdBg"), ("B", "dAgBBggBgAddAdB"), 3), 60, 1/10)
done()
```



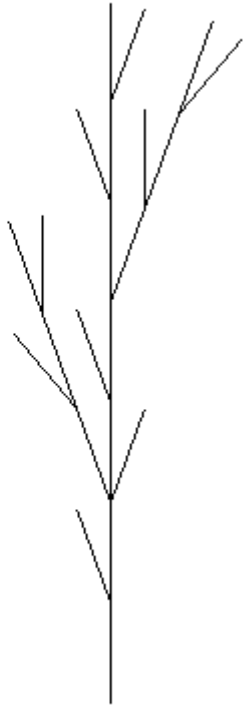
4 Des plantes et une tortue à pile !

```
#Exemple :
up()
goto(-120, 60)
down()
depart="AdAdAdA"
regle1=("A", "AgadAAgAgAAgAagAAagAAAdAdAAAdAAA")
regle2=("a", "aaaaaa")

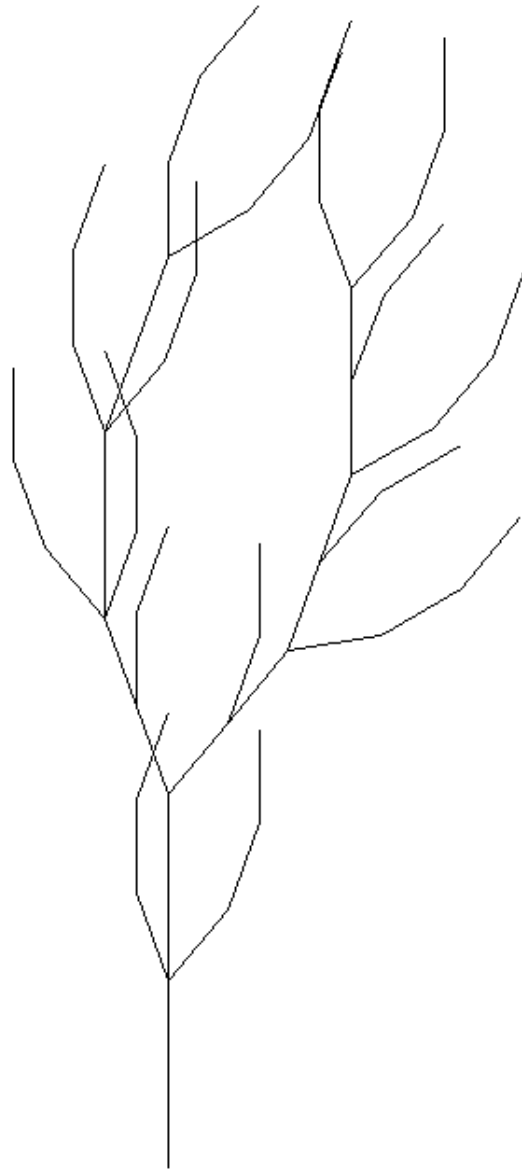
tracelssysteme(iterelsysteme2(depart, regle1, regle2, 2), 90, 1/25)
done()
```



```
traceLsysteme(iterLsysteme1("A", ("A", "A[gA]A[dA][A]"), 2), 20, 1/2)  
done()
```



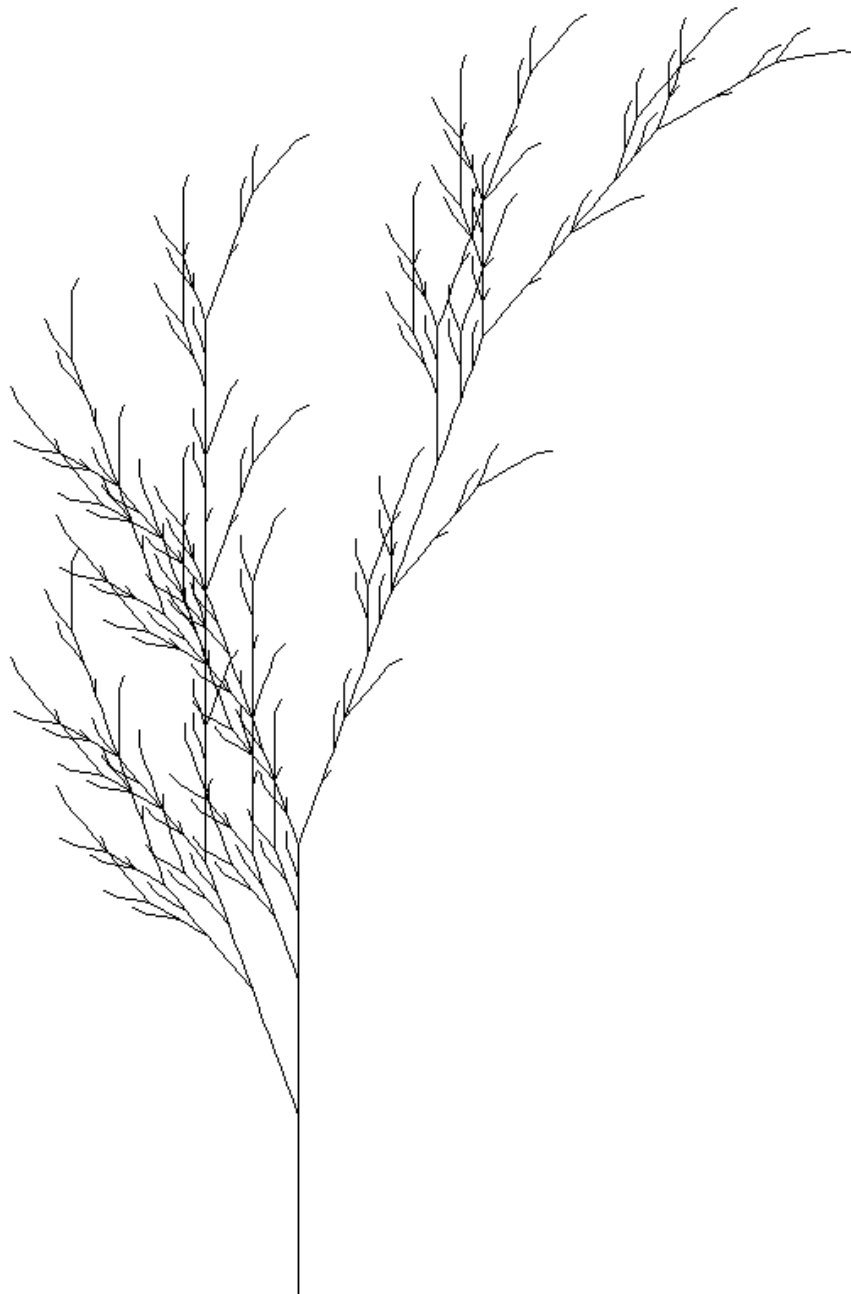
```
up()
goto(-10, -350)
down()
tracelssysteme(iterelsysteme1("A", ("A", "AAd[dAgAgA]g[gAdAdA]"), 2), 20, 1/2)
done()
```



```

up()
goto(-10, -450)
down()
tracelsysteme(iterelsysteme2("X", ("X", "A[gX][X]A[gX]dAX"), ("A", "AA"), 5), 20, 1/10)
done()

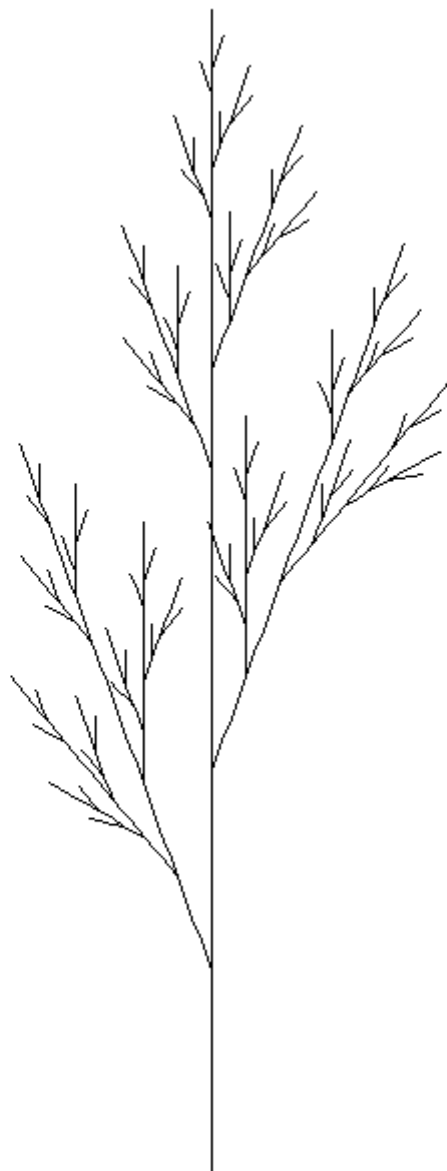
```



```

up()
goto(-10, -350)
down()
tracelsysteme(iterelsysteme2("X", ("X", "A[gX]A[dX]AX"), ("A", "AA"), 5), 20, 1/16)
done()
|

```



```
up()
goto(-10, -450)
down()
tracelsysteme(iterelsysteme2("X", ("X", "Ad[[X]gX]gA[gAX]dX"), ("A", "AA"), 5), 20, 1/10)
done()
```