1 Exécution d'une séquence d'instructions

```
0 0 0 : 1 0 0 0 0 0 0 0
0 0 1 : 0 1 0 0 0 0 0 0
0 1 0 : 0 0 1 0 0 0 0 0
0 1 1 : 0 0 0 1 0 0 0 0
1 0 0 : 0 0 0 0 1 0 0 0
1 0 1 : 0 0 0 0 0 1 0 0
1 1 0 : 0 0 0 0 0 0 1 0
1 1 1 : 0 0 0 0 0 0 0 1
```

2 Pavage de triangles équilatéraux

```python
# -*- coding: utf-8 -*-

from turtle import *

n = 5
a = 50
x,y = 0,0
dx = 25
dy = -25
for j in range(n):
    up()
    x = x + dx
    y = y + dy
    goto(x,y)
    down()
    for i in range(3) :
        forward(a)
        left(120)
```

3 Nombres fractionnaires

```python
# -*- coding: utf-8 -*-

x = 0.2578125
k = 60
print(x,'= 0.',end=' ')
while x != 0 and k > 0:
    x = x*2
    print(int(x),end=' ')
    x = x - int(x)
    k = k - 1
```

4 Méthode des rectangles

```python
# -*- coding: utf-8 -*-

from math import *

f = sin
a = 0.
```

```
b = pi
n = 100000
I = 0.0
largeur = (b-a)/n
x = a + largeur/2
while x < b:
    I = I + f(x)
    x = x + largeur
I = I*largeur

print(I-2)
```