

## Codes du TP7

```
import numpy.random as rd
import numpy as np

r=rd.random(10)
def test_grandeur(t):
    i=0
    while r[i]<t:
        i=i+1
    return r[i]

taille_r=np.shape(r)[0]

def test_grandeur_bis(t):
    i=0
    while i< taille_r and r[i]<t:
        i=i+1
    if i>= taille_r:
        print('Pas d élément plus grand que ',t)
    else :
        return r[i],i
```

#Exercice 3.1

```
def exo_suite1(x):
    u=4
    while u<x:
        u=u**2+1
    return u

def exo_suite1bis(x):
    u=4
    i=0
    while u<x:
        i=i+1
        u=u**2+1
    return u,i
```

#Exercice 3.2

```
def exo_suite2(eps):
    u=3/4
    n=0
    while u>eps:
        u=u-u**2
        n=n+1
    return n
```