**L**ycée

**I**nformatique **S**pécialité

## 🗻 Représentation des données : les tableaux 🤝

```
Test Python Console

>>> var = 1 + 1

>>> var

2

2
```

Test ceci va-t-il fonctionner?

```
recopier une liste

from math import *

def recopie(t):
    n = len(t)
    tc = []*n
    for i in range(n):
        tc[i] = t[i]
    return tc

t = [4, 5, 8, 7]
print('Tableau original', t)
print('Tableau recopié', recopie(t))
```

```
Traceback (most recent call last):

File "py_default_default.py", line 12, in <module>
print('Tableau recopié', recopie(t))

File "py_default_default.py", line 7, in recopie
tc[i] = t[i]

IndexError: list assignment index out of range
```

```
Recopier une liste - v2

from math import *

def recopie(t):
    n = len(t)
    tc = [0]*n
    for i in range(n):
        tc[i] = t[i]
    return tc

t = [4, 5, 8, 7]
```

```
print('Tableau original', t)
    print('Tableau recopié', recopie(t))
     Output: ?? PythonTeX??? PythonTeX??
                         _____ Console Python _____
   >>> print(t)
   Traceback (most recent call last):
2
     File "<stdin>", line 1, in <module>
   NameError: name 't' is not defined
     Here is an example of some functions: Here is foo:
                        _____ Code source ___
   def foo(x):
       return 2*x
2
                              _____ Source Code ____
    def foobar(x):
1
       return foo(foo(x))
2
                           _____ Code source ___
   def foo(x):
       return 2*x
                         _____ Console Python _____
   >>> foo(10)
1
   >>> foobar(10)
   40
   >>> foobar(foo(12))
   >>> t
   Traceback (most recent call last):
    File "<stdin>", line 1, in <module>
   NameError: name 't' is not defined
                             _____ Output _____
    ?? PythonTeX??
                                ___ Code source _
    from math import *
1
2
   def recopie2(t):
3
       n = len(t)
4
       tc = []*n
5
       for i in range(n):
           tc[i] = t[i]
       return tc
8
   t2 = [4, 5, 8, 7]
10
    tc2 = recopie2(t2)
11
    #print(recopie(t))
12
```

```
Console Python

>>> print(t2)

[4, 5, 8, 7]

>>> print(tc2)

Traceback (most recent call last):

File "<stdin>", line 1, in <module>

NameError: name 'tc2' is not defined
```