

CHAPITRE 4: Les Tableaux

SERIE 1:

CORRECTION:

Exercice 1:

```
from numpy import *

N = int(input('Taper N = '))
while not (3 <= N <= 30):
    N = int(input('Taper N (entre 5 et 30) = '))

T = array([float] * N)

for i in range(N):
    T[i] = float(input("Entrer T[" + str(i) + "]: "))
    while not (0 <= T[i] <= 20):
        T[i] = float(input("Entrer T[" + str(i) + "]: "))

S = 0
for i in range (N):
    S = S + T[i]
Moyenne = S / N

print('Somme = ', S)
print("Moyenne = " , Moyenne)</pre>
```

Exercice 2:

```
from numpy import *
N = int(input('Taper N = '))
while not (5 <= N <= 30):
    N = int(input('Taper N = '))

T = array([int] * N)

for i in range(N):
    T[i] = int(input('T[' + str(i) + ']='))
    while not (T[i] >= 0):
        T[i] = int(input('T[' + str(i) + ']='))

Max = T[0]

for i in range(N):
    if T[i] > Max:
        Max = T[i]
```

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```
Min = T[0]

for i in range(N):
    if T[i] < Min:
        Min = T[i]

print('Max =', Max)
print('Min =', Min)</pre>
```

Exercice 3:

```
from numpy import *
N = int(input('Taper N = '))
while not (3 <= N <= 20):
    N = int(input('Taper N = '))
T = array([str] * N)
for i in range(N):
   T[i] = input('T[' + str(i) + ']=')
   while not ('A' \leq T[i][0] \leq 'Z' and T[i][len(T[i]) - 1] == '#' and len(T[i]) > 3):
        T[i] = input('T[' + str(i) + ']=')
code = input('Taper code=')
while not ('A' \leq code[0] \leq 'z' and code[len(code) - 1] = '#' and len(code) > 3):
    code = input('Taper code=')
i, test = 0, False
while i < N and not test:
   if code == T[i]:
        test = True
    else:
        i = i + 1
if test:
    print(code, 'existe dans T')
else:
    print(code, 'n\'existe pas')
```

Exercice 4:

```
from numpy import *

N = int(input('Taper N = '))

while not (5 <= N <= 30):
    N = int(input('Taper N = '))

T = array([int] * N)

for i in range(N):
    T[i] = int(input('T[' + str(i) + ']='))</pre>
```

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```
while not (T[i] >= 0):
        T[i] = int(input('T[' + str(i) + ']=!'))

print('Les nombres réguliers sont :')

for i in range(N):
    ch = str(T[i])

if int(ch[0]) % 2 == 1 and int(ch[len(ch) - 1]) % 2 == 1:
        print(T[i])
```

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