

<b>TD INFO04 – CORRECTION MANIPULATION DE FICHIERS</b>
--

**# Exercice n°1 : Nombre d'occurrences**

```
def NBoccurrence(s,c):
    nb = 0
    for x in s:
        if x == c:
            nb = nb + 1
    return nb
```

---

**# Exercice n°2 : Remplacement de caractères**

```
def Remplace(s,c1,c2):
    c = ""
    for x in s:
        if x==c1:
            c = c+c2
        else :
            c = c+x
    return c
```

---

**# Exercice n°3 : Test présence de chiffres**

```
def Testchiffres(s):
    Chiffres = "0123456789"
    for x in s:
        if x in Chiffres:
            return True
    return False
```

---

**# Exercice n°4 : Compteur de mots**

```
def Compteurmots(phrase):
    L = phrase.split(" ")
    nbmots = len(L)
    return nbmots
```

---

**# Exercice n°5 : Fréquence d'apparition des bases adn**

```
f = open("bases.txt")
Bases = f.readlines()
f.close()
```

```
NbBases = [0,0,0,0]
for ligne in Bases:
    for x in ligne:
        if x=="a":
            NbBases[0]= NbBases[0]+1
        elif x=="t":
            NbBases[1]= NbBases[1]+1
        elif x=="g":
            NbBases[2]= NbBases[2]+1
        elif x=="c":
            NbBases[3]= NbBases[3]+1
```

```
f=open("nombresbases.txt", "w")
```

```
L=["a,t,g,c\n",str(NbBases[0])+"", "+str(NbBases[1])+", "+str(NbBases[2])
+", "+str(NbBases[3]) ]
```

```
f.writelines(L)
f.close()
```