

2025 sujet 7

Exercice 1

```
def nbr_occurences(chaine):  
    dico = {}  
    for c in chaine:  
        if c in dico:  
            dico[c] = dico[c] + 1  
        else:  
            dico[c] = 1  
    return dico
```

Exercice 2

```
def fusion(tab1, tab2):  
    '''Fusionne deux tableaux triés et renvoie  
    le nouveau tableau trié.'''  
    n1 = len(tab1)  
    n2 = len(tab2)  
    tab12 = [0] * (n1 + n2)  
    i1 = 0  
    i2 = 0  
    i = 0  
    while i1 < n1 and i2 < n2:  
        if tab1[i1] < tab2[i2]:  
            tab12[i] = tab1[i1]  
            i1 = i1 + 1  
        else:  
            tab12[i] = tab2[i2]  
            i2 = i2 + 1  
        i += 1  
    while i1 < n1:  
        tab12[i] = tab1[i1]  
        i1 = i1 + 1  
        i = i + 1  
    while i2 < n2:  
        tab12[i] = tab2[i2]  
        i2 = i2 + 1  
        i = i + 1  
    return tab12
```