

Correction sujet épreuve pratique bac NSI

Exercice 1 :

```
def recherche_indices_classement(elt, tab):  
    t_inf = []  
    t_eq = []  
    t_sup = []  
    for i in range(len(tab)):  
        if tab[i] == elt:  
            t_eq.append(i)  
        elif tab[i] < elt:  
            t_inf.append(i)  
        elif tab[i] > elt:  
            t_sup.append(i)  
    return (t_inf, t_eq, t_sup)
```

Exercice 2 :

```
resultats = {  
    'Dupont': {  
        'DS1': [15.5, 4],
```

```
'DM1': [14.5, 1],
'DS2': [13, 4],
'PROJET1': [16, 3],
'DS3': [14, 4]
},
'Durand': {
    'DS1': [6, 4],
    'DS2': [8, 4],
    'PROJET1': [9, 3],
    'IE1': [7, 2],
    'DS3': [12, 4]
}
}
```

```
def moyenne(nom, resultats):
```

```
    """Renvoie la moyenne de l'élève nom, selon le
    dictionnaire
```

```
    resultats. Si nom n'est pas dans le dictionnaire,
    la fonction renvoie None."""
```

```
    if nom in resultats:
```

```
        notes = resultats[nom]
```

```
        if len(notes) == 0: # pas de notes
```

```
        return 0
    total_points = 0
    total_coefficients = 0
    for valeurs in notes.values():
        note, coefficient = valeurs
        total_points = total_points + note * coefficient
        total_coefficients = total_coefficients + coefficient
    return round( total_points/ total_coefficients, 1 )
else:
    return None
```