

21 NSI 14

```
In [ ]: resultats = {'Dupont':{'DS1' : [15.5, 4],  
                        'DM1' : [14.5, 1],  
                        'DS2' : [13, 4],  
                        'PROJET1' : [16, 3],  
                        'DS3' : [14, 4]},  
                    'Durand':{'DS1' : [6 , 4],  
                        'DM1' : [14.5, 1],  
                        'DS2' : [8, 4],  
                        'PROJET1' : [9, 3],  
                        'IE1' : [7, 2],  
                        'DS3' : [8, 4],  
                        'DS4' : [15, 4]}}
```



```
In [ ]: def moyenne(nom):  
    if nom in ...:  
        notes = resultats[nom]  
        total_points = ...  
        total_coefficients = ...  
        for ... in notes.values():  
            note , coefficient = valeurs  
            total_points = total_points + ... * coefficient  
            total_coefficients = ... + coefficient  
        return round( ... / total_coefficients , 1 )  
    else:  
        return -1
```

