

```
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]}}
```

```
def moyenne(nom):
    if nom in resultats:
        notes = resultats[nom]
        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 -1
```

```
assert moyenne('Dupont') == 14.5
assert moyenne('Dupond') == -1
```