

Correction sujet épreuve pratique bac NSI

Exercice 1 :

```
def fibonacci(n):
```

```
    if n < 2 :
```

```
        return n
```

```
    return fibonacci(n-1) + fibonacci(n-2)
```

#utilisation de la prog dynamique (ascendante)

```
def fibonaccib(n):
```

```
    t = [0]*(n+1)
```

```
    t[1] = 1
```

```
    for i in range(2, n+1):
```

```
        t[i] = t[i-1] + t[i-2]
```

```
    return t[n]
```

Exercice 2 :

```
def eleves_du_mois(eleves, notes):
```

```
    note_maxi = 0
```

```
meilleurs_eleves = []

for i in range(len(eleves)):
    if notes[i] == note_maxi:
        meilleurs_eleves.append(eleves[i])
    elif notes[i] > note_maxi:
        note_maxi = notes[i]
        meilleurs_eleves = [eleves[i]]

return (note_maxi, meilleurs_eleves)
```