

Correction Exercice 3

Question 1 : (0,5)

	11	$11 \times 20 = 220$
	15	15

Question 2 : (0,5)

$$8 \times 20^2 + 11 \times 20^1 + 15 = 3435$$

Question 3 : (0,75)

```
M = Maya()
M.ajouter([0,0,3])
M.ajouter([0,1,2])
M.ajouter([0,3,1])
```

Question 4 : (0,5)

```
def NBetages(self) :
    return len(self.nombre)
```

Question 5 : (0,75)

```
def ValeurChiffre(L) :
    return L[1] + L[2]*5
```

Question 6 : (1)

```
def MayaToDEC(self) :
    coef= 20**self.NBEtage()
    while not self.estVide() :
        ch_Maya = self.retirer()
        ch_Dec = ch_Dec + (valeurChiffre(ch_Maya)) * coef
        coef = coef//20 # ou 20**self.NBEtage()
```

Question 7 : (0,75)

```
def decompChiffre(n) :
    if n == 0 :
        return [1,0,0]
    else :
        return [0, n%5, n//5]
```

Question 8 : (1)

```
def decToMaya(n) :  
    L = DecToVige(n)  
    M = Maya()  
    for e in L:  
        M.ajouter(decompChiffre(e))  
    return M
```

Question 9 : (0,5)

```
def Multiplie(self) :  
    self.nombre.insert(0, [1,0,0])
```

Question 10 : (0,75)

```
([0,4,2], 0)  
([1,0,0], 1)
```

Question 11 : (1)

```
def somme(self, m) :  
    ret = 0  
    s = Maya()  
    for i in range(len(self.nombre)):  
        l, ret = mystere(self.nombre[i], m.nombre[i], ret)  
        self.nombre[i] = l  
    if ret == 1:  
        self.nombre.insert(0, [1, 0, 0])
```