Chapitre 8 - Programmation Orientée Objet (POO)

```
class Rectangle :
   contenu = \{\}
   nb = 0
   def init (self, x = 0, y = 0, l = 0, h = 0, nom = "", couleur = "white"):
       self.centre = [x,y]
       self.l = l
       self.h = h
       self.nom = nom
       self.couleur = couleur
       Rectangle.nb = Rectangle.nb + 1
       self.insererDansCanvas()
   def insererDansCanvas(self):
       xA = self.centre[0] - self.l
       yA = self.centre[1] - self.h
       xB = self.centre[0] + self.l
       yB = self.centre[1] + self.h
       num = canvas.create rectangle(xA,yA,xB,yB,fill=self.couleur)
       Rectangle.contenu[self.nom] = [self,num]
   def perimetre(self) :
       p = (self.l + self.h)*2
       return p
   def surface(self) :
       s = self.l * self.h
        return s
   def agrandir(self,k) :
       self.l = self.l * k
       self.h = self.h * k
   def translater(self,X,Y) :
        self.centre[0] = self.centre[0] + X
       self.centre[1] = self.centre[1] + Y
   def str (self) :
       p = self.perimetre()
       s = self.surface()
        return f"""
Rectangle {self.nom}
   Centré sur le point ({self.centre[0]},{self.centre[1]})
   Longueur = {self.l}
   Largeur = {self.h}
   Couleur = {self.couleur}
   Perimetre = \{p\}
   Surface = \{s\}
```