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```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
# fichier: joli.py
# version: 0.5.0
 auteur: Pascal CHAUVIN
    date: 2014/10/28
# (tous les symboles non internationaux sont volontairement omis)
import string
class joli(object):
       __init__(self, car ="?"): # const. globale: "?" vaut monome.INDET_DEG_0
    self.__car = car
    self.__nombre = 1
    self.__gauche = None
    self. droite = None
  def car(self):
    return self.__car
  def nombre(self):
    0.0000\pm0.000
    return self.__nombre
  def a_plat(self, concis =True):
    ....
    s = ""
    liaison = " * "
    if concis: liaison = "*"
    if self.__gauche is not None:
      s = liaison + self.__gauche.a_plat(concis)
    if self.__nombre == 1:
    s = "{}".format(self.__car) + s
      s = "{}^{}".format(self.__car, self.__nombre) + s
    if self.__droite is not None:
      s = self.__droite.a_plat(concis) + liaison + s
    return s
  def __repr__(self):
    return "[joli:\n__car={},\n__nombre={},\n__gauche={},\n__droite={}\n]\n"\
      .format(self.__car, self.__nombre, id(self.__gauche), id(self.__droite))
  def __str__(self):
```

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return self.a_plat()
  def inserer(self, x):
    0.0000\pm0.0000
    if not(x in string.ascii_letters):
     return
    if self.__car == x:
     self. nombre += 1
     return
    if self.__car < x:</pre>
     if self.__gauche is None:
       self._gauche = joli(x)
     else:
       self.__gauche.inserer(x)
     return
    if self.__droite is None:
      self.__droite = joli(x)
    else:
     self.__droite.inserer(x)
  def nombre_noeuds(self):
    n = 1
    if self.__gauche is not None:
     n += self.__gauche.nombre_noeuds()
    if self.__droite is not None:
     n += self.__droite.nombre_noeuds()
   return n
def format_indet(s, concis =True):
  if len(s) == 0:
   return ""
 n = joli(s[0])
  s = s[1:]
  for c in s: n.inserer(c)
 return n.a_plat(concis)
```

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```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
# fichier: joli_tests.py
# version: 0.5.0
 auteur: Pascal CHAUVIN
    date: 2014/10/28
# (tous les symboles non internationaux sont volontairement omis)
import joli as jo
def test_unitaire0():
 print("\n*** test unitaire 0 ***")
 n = jo.joli('t')
 n.inserer('y')
 n.inserer('a')
 n.inserer('x')
 n.inserer('x')
 n.inserer('b')
 n.inserer('u')
  print("---")
  print(n.a_plat())
  print("---")
  print(n)
  print("---")
  print(repr(n))
  ok = (n.nombre noeuds() == 6)
  return ok
def test_unitaire1():
 print("\n*** test unitaire 1 ***")
  s = "gnu is not unix"
 n = jo.joli(s[0])
  s = s[1:]
  for c in s:
   n.inserer(c)
 print(n.a_plat())
  ok = True
  return ok
def test_unitaire2():
 print("\n*** test unitaire 2 ***")
 print(jo.format_indet("ce matin un lapin"))
  ok = True
  return ok
```

def test_unitaire3():

```
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  print("\n*** test unitaire 3 ***")
  ok = True
  return ok
def test_unitaire4():
  print("\n*** test unitaire 4 ***")
  ok = True
  return ok
def test_unitaire5():
 print("\n*** test unitaire 5 ***")
  ok = True
  return ok
def test_unitaire():
  print("\n*** test unitaire ***")
  ok = True
  return ok
def tests_unitaires():
  return (
   test_unitaire0() and \
   test_unitaire1() and \
   test_unitaire2() and \
   test_unitaire3() and \
   test_unitaire4() and \
   test_unitaire5()
```

if __name__ == "__main__":
 print(tests_unitaires())

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