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```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
# fichier: monome.py
# version: 0.5.0
 auteur: Pascal CHAUVIN
    date: 2014/10/28
# (tous les symboles non internationaux sont volontairement omis)
import sys
sys.path.append('./joli_mod')
sys.path.append('../utile_mod')
import joli
import rationnel
import utile
INDET DEG 0 = "?"
class monome(object):
       __init__(self, coeff =rationnel.rationnel(), indet =INDET_DEG_0, valide =True):
    nnn _ nnn
    if not valide:
      coeff = rationnel.rationnel(0, 1, False)
      indet = INDET_DEG_0
    else:
      if len(indet) == 0:
       indet =INDET DEG 0
        valide = True
      else:
        t = utile.en ordre alphabetique(indet)
        valide = not utile.contient_erreur(t)
        if valide:
          indet = t
        else:
         indet = INDET_DEG_0
    if coeff.est_zero():
      indet = INDET DEG 0
    self.__valide = valide
    self.__coeff = coeff
    self.__indet = indet
  def __repr__(self):
    return "[monome:\n_coeff={0},\n_indet={1},\n_valide={2}\n]\n".\
      format(self.__coeff, self.__indet, self.__valide)
 def __str__(self):
    t = ""
    if self.__coeff.lire_num().lire_valeur() >= 0:
     t = str(self.__coeff)
    else:
      t = "(" + str(self.__coeff) + ")"
    if self.__indet.endswith(INDET_DEG_0):
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return t
  if self.__coeff == rationnel.rationnel(1):
   return str(self.__indet)
  else:
   return t + " * " + str(self.__indet)
def joli(self):
  t = ""
  if self.__coeff.lire_num().lire_valeur() >= 0:
   t = str(self.__coeff)
  else:
   t = "(" + str(self.__coeff) + ")"
  if self.__indet.endswith(INDET_DEG_0):
   return t
  indet = joli.format indet(self. indet)
  if self. coeff == rationnel.rationnel(1):
   return str(indet)
  else:
   return t + " * " + str(indet)
def __eq__(self, autre):
 return (self.__indet is autre.__indet)
def lt (self, autre):
  """ ordre sur les indeterminees (polynome multivarie) """
 return (self.__indet < autre.__indet)</pre>
  a = self.__indet
  if a.startswith(INDET_DEG_0):
   a = ""
  b = autre.__indet
  if b.startswith(INDET DEG 0):
   b = ""
  if len(a) != len(b):
   return (a < b)</pre>
  else:
   return (a > b)
def est_valide(self):
  return self.__valide
def lire coeff(self):
 .... _ ....
 return self.__coeff
def fixer_coeff(self, c):
  - nnn - nnn
  self.__coeff = c
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```
def lire_indet(self):
    """ _ """
    return self.__indet

def fixer_indet(self, i):
    """ _ """
    self.__indet = i

def est_degre_nul(self):
    """ _ """
    return self.__indet.startswith(INDET_DEG_0)

if __name__ == "__main__":
    pass
```