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#!/usr/bin/env python3
# -*- coding: utf-8 -*-
# fichier: utile.py
# version: 0.5.0
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   date: 2014/10/28
# (tous les symboles non internationaux sont volontairement omis)
import string
JOKER = "?" # pour le monome de degre nul
def en_ordre_alphabetique(s):
  0.0000\pm0.0000
  t = "".join(s.split())
  t = "".join(sorted(list(t.lower()), key=str.lower))
def contient_erreur(s):
  erreurs = 0
  for car in s:
   erreurs += not (car in string.ascii_letters or car == JOKER)
 return (erreurs > 0)
def reduction(s):
 .... _ ....
  t = ""
  for car in s:
   if car != JOKER: t += car # '?'
  if len(t) == 0:
   return JOKER
  else:
   return t
def correction math(s):
  """ quelques ajustements syntaxiques """
  t = ""
  for x in s:
    if (x in string.digits) or (x in string.ascii_letters):
      t += x
    if x in "{[": x = "("
    if x in "}]": x = ")"
   if x in "+-*^:/()":
     t += x
  return t
if __name__ == "__main__":
 pass
```