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"""
Série 1: Rappel
Classe : SP1_GB
Date : 04-09-2023
"""
from math import sqrt

#Exercice 1
# Q1
def init(L):
   #L = []
   while len(L)!=0:
       L.pop()
   for i in range(100):
       L.append(1)
   print("id(L)local:",id(L))
   return None # None est retournée implicitement

#Q2
def multiple(L,i):
   for j in range(i+1,len(L)):
       if j % i == 0 :
           L[j] = 0
# Q3
def suivant(l,i):
   for j in range(i+1,len(L)):
       if L[j] == 1:
           return j
def crible(L):
   i = 2

   while i < int(sqrt(len(L))):
       multiple(L,i)
       i=suivant(L,i)
   #mth 1
   """
   p = []
   for i in range(2,len(L)):
       if L[i]==1 : p.append(i)
   return p
   """
   # mth 2
   return [i for i in range(2,len(L)) if L[i]==1]

def crible_rec(L,i):
   if i <= int(sqrt(len(L))):
       multiple(L,i)
       i=suivant(L,i)
       return crible_rec(L,i)
   else:
       return [i for i in range(2,len(L)) if L[i]==1]

#anis-saied.github.io/ipein

#prog principal
L = []
init(L)
i=2
p = crible_rec(L,i)
print(p)

"""
print("id(L)global:",id(L))
print("avant : ",L)
L1 = init(L)
print("id(L)global:",id(L))
print("après : ",L)
print("L1=",L1)
"""
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