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Série 1
Groupe : SM1
date: 04-09-2023
# Ex 1
## Q1
def init(L):
  L = []
  for i in range(100):
     L.append(1)
   return L
## 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):
   j = i + 1
   while L[j]== 0:
      j += 1
   return j
   # return L.index(1,i+1)
## Q4
def crible(L):
   L= init(L)
   i = 2
   from math import sqrt
   while i <= int(sqrt(len(L))):</pre>
       multiple(L,i)
       i = suivant(L,i)
   p = [i for i in range(2,len(L)) if L[i]==1]
   return p
## 05
from math import sqrt
def crible_rec(L,i):
   if i <= int(sqrt(len(L))):</pre>
       multiple(L,i)
       i = suivant(L,i)
       return crible_rec(L,i)
   else:
       p = [i for i in range(2,len(L)) if L[i]==1]
## prog principal
L = []
L= init(L)
p=crible_rec(L,2)
print(p)
```