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100
TP3 : Les files
Groupe : Ipein/ST1/GB
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# file.py
def creer_file():
  return []
def file_vide(f):
  return len(f)==0
def sommet(f):
  return f[0]
def taille(f):
  return len(f)
def enfiler(f,x):
   f.append(x)
def defiler(f):
   s = f.pop(0)
   return s
# Ex1
def afficher(f):
   t = taille(f)
   for i in range(t):
       s = defiler(f)
       print(s)
       enfiler(f,s)
def defilerJusqua(f,x):
   while taille(f)>0 and \setminus
         sommet(f)!=x:
       defiler(f)
def appartient(f,x):
   t = taille(f)
   test = False
   for i in range(t):
       s = defiler(f)
       if s == x:
           test = True
       enfiler(f,s)
   return test
def appartient(f,x):
   from copy import copy
   f1 = copy(f)
   defilerJusqua(f1,x)
   if taille(f1)>0:
      return True
   return False
# EX 2
def nb_hamming(n):
   f2= creer_file(); enfiler(f2,1)
   f3= creer_file(); enfiler(f3,1)
   f5= creer_file(); enfiler(f5,1)
   for i in range(n):
       k = min(sommet(f2), sommet(f3), sommet(f5))
       if k==sommet(f2) : defiler(f2)
       if k==sommet(f3) : defiler(f3)
       if k = sommet(f5) : defiler(f5)
       print(k, end=", ")
       enfiler(f2,2*k)
       enfiler(f3,3*k)
       enfiler(f5,5*k)
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