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'''
Série 1 : rappel
Groupe : SP2/GB
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# Exercice 2
def saisie_deg():
   while 1:
       try :
           n = int(input("n="))
           if n>0:
               return n
       except :
           continue

def saisie_poly(n):
   p = [None]* (n+1)
   for i in range(n+1):
       while 1:
           try:
               c = float(input("P[{}]= ".format(i)))
               if (i<n) or (i==n and c!=0):
                   p[i] = c
                   break # stop while
           except:
               print("Erreur")
   return p

def derive(p): return [p[i]*i for i in range(1,len(p))]

def opp_poly(p): return [-c for c in p]

def add_poly(p1,p2):
   n1,n2 = len(p1),len(p2)
   p = [p1[i]+p2[i] for i in range(min(n1,n2))]
   p += p2[n1:] if n2 > n1 else p1[n2:]
   #opérateur ternaire : T1 if cond else T2
   return p


def mul_poly(p1,p2):
   n1 = len(p1)-1
   n2 = len(p2)-1
   p = [0] * (n1+n2+1)
   for i in  range(n1+1):
       for j in range(n2+1):
           p[i+j] += p1[i] * p2[j]
   return p

# a terminer
def suite_poly(p,k):
   assert type(k)==int and k>=0
   assert type(p)==list

   if k==0: sp_k = p
   elif k==1: sp_k = opp_poly(derive(p))
   else:
       sp_k = p
       sp_k1 = opp_poly(derive(p))
       for i in range(2,k+1):
           q = mul_poly (sp_k1 , sp_k)
           sp_k2 = add_poly(mul_poly(q , sp_k1),sp_k)

   return sp_k
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