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import math
from math import sqrt, floor
import numpy as np

def sommediv(n):
    somme = 0
    grandK = floor((1+sqrt(24*n+1))/6)
    for k in range(1,grandK+1):
        somme = somme+((-1)**(k-1))*(sommetilde(n,((3*k*k-k)/2))+sommetilde(n,
((3*k*k+k)/2)))
    return(somme)

def sommetilde(x,y):
    if x == y:
        return x
    else:
        if x > y:
            return(tabsommediv[int(x-y)])
        else:
            return(0)

tabsommediv = np.zeros(105,dtype = 'int')
tabsommediv[1] = 1
for n in range(101):
    tabsommediv[n] = sommediv(n)
    print(n, ' --> ', tabsommediv[n])

```