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from math import *
import numpy as np

t = np.zeros(150, dtype='i')
for i in range(1,150):
    t[i]=i*i
    print(i," --> ",t[i])

for cible in range(3,101):
    pastrouve = True
    i1 = cible
    while (i1 >= 1) and pastrouve:
        i2 = i1
        while (i2 >= 1) and pastrouve:
            i3 = i2
            while ((i3 >= 1) and pastrouve):
                if t[i1] == cible:
                    print(cible,"=",t[i1])
                    pastrouve = False
                elif t[i2] + t[i1] == cible:
                    print(cible,"=",t[i1],"+",t[i2])
                    pastrouve = False
                elif t[i1] + t[i2] + t[i3] == cible:
                    print(cible,"=",t[i1],"+",t[i2],"+",t[i3])
                    pastrouve = False
                elif t[i3]+t[i2]+t[i1] < cible:
                    i4 = i3
                    while (i4 >= 1) and pastrouve:
                        if t[i1] + t[i2] + t[i3] + t[i4] == cible:
                            print(cible,"=",t[i1],"+",t[i2],"+",t[i3],"+",t[i4])
                            pastrouve = False
                        i4=i4-1
                    i3=i3-1
                i2=i2-1
            i1=i1-1

```