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import matplotlib
import matplotlib.pyplot as plt
from pylab import *

def prime(atester):
    pastrouve = True
    k = 2
    if (atester == 1): return False
    if (atester == 2): return True
    if (atester == 3): return True
    if (atester == 5): return True
    if (atester == 7): return True
    while (pastrouve):
        if ((k * k) > atester):
            return True
        else:
            if ((atester % k) == 0):
                return False
            else: k=k+1

for n in range(100,3700,100):
    with open('pointsGoldbach', 'w') as f1:
        for k in range(3,n/2+1):
            if (prime(k)) and (prime(n-k)):
                xa = k%60
                ya = (k/60)+1
                f1.writelines(str(xa)+" "+str(ya)+"\n")

xs, ys = [], []
with open('pointsGoldbach', 'r') as f2:
    for line in f2.readlines():
        x, y = [int(mot) for mot in line.split()]
        xs.append(x)
        ys.append(y)
f2.close()

figure(figsize=(5,5))
plt.axis([0,61,0,61])
plt.plot(xs, ys, 'o', label='', markersize=2)
plt.show()

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