```
import math

def is_prime(x):
  div = [elem for elem in range(2,int(math.sqrt(x))+1) if x%elem ==0 ]
  return len(div) == 0

primes = [elem for elem in range(5, 10002, 2) if is_prime(elem)]

_6k1 = [elem for elem in primes if (elem-1) % 6 == 0]  # 6k+1's primes
_6k_1 = [elem for elem in primes if (elem+1) % 6 == 0] # 6k-1's primes

directions = [(1,0),(0,-1),(-1,0),(0,1)]

def gruenberger_path():

 def position(p):
   position.position = position.position[0] +
       directions[position.direction][0], position.position[1] +
       directions[position.direction][1]
   if p in _6k1: position.direction = (position.direction-1)%4 # turn left
   elif p in _6k_1: position.direction = (position.direction+1)%4 #turn right
   return position.position # normal odd number
 position.position = 0,0
 position.direction = 0

 return {i: position(i) for i in range(3, 10002, 2)}

def crossing():
  recurrencies = dict()

  for key,value in gruenberger_path().items():
    recurrencies[value] =
      recurrencies[value]+[key] if value in recurrencies else [key]

  return sorted([x for x in recurrencies.values() if len(x)>1])
```