import time

#this is where you enter a pin number stored in yourPin

print('enter your PIN')

print(' ')

yourPin = str(input())

pinlength = len(yourPin)

#check to see if yourPin is valid or not

if(pinlength == 4):

yourPin = int(yourPin)

print(' ')

confirmYourPin = int(input('confirm your PIN: '))

while(confirmYourPin != yourPin):

print(' ')

print('ERROR!')

print(' ')

confirmYourPin = int(input('confirm your PIN: '))

print(' ')

print('success')

else:

print('ERROR!')

#this program will crack yourPin and also record how much time it would take

startTime = time.time()

loopCount = 0

#this program will crack the yourPin

while(loopCount != yourPin):

loopCount += 1

print(' ')

print(loopCount)

print(' ')

print('your pin is %d' % loopCount)

#this tells you how much time it took to crack yourPin

endTime = time.time()

elapsedTime = (endTime - startTime)

print(' ')

print('it took', elapsedTime, 'seconds to crack your pin')