import math

n=460

r1=10000-(0.8\*0.000001\*n)

v1=(r1/(r1+100))\*3.74

v0=(10000/10100)\*3.74

for i in range(199,0,-1):

r=10000-(0.35024\*0.000001\*i)

v=(r/(r+100))\*3.74

a=(v0-v)/(3.74-v)

b=(3.74-v1)/(v0-v1)

a1=math.log(a,10)

b1=math.log(b,10)

abs=-(a1)-(b1)

print(i,"--",v,"------",abs)