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#The research on "probability weighting function"
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import os
#初始参数设定
k = 1.0/15 #相对盈利系数
m = 0.1    #相对盈利系数上升速度
n = 1      #相对盈利系数上升级数
r = 5      #最大上升级数
a = 4000
pa = 0.8
b = 4000
pb =0.2
print u"这是一个行为经济学实验"
def hypo1(n):
    pi = a * pa / (k * (1+n*m) + 1)
    return pi
def hypo2(n):
    pi = b * pb * (k *(1+n*m) + 1)
    # pi = b * pb / (k * (1+n*m) + 1)
    return pi
flag1 = False
flag2 = False
for n in range(r+1):
    # print n, hypo2(n)
    if flag1 is False:
        os.system('cls')
        print u"如果你有两个选择："
        print u"选择1:你有80%的几率获取",a,u"元，  20%的几率获得0"
        print u"选择2:你有100%的几率获取",hypo1(n)
        print u"你会选择："
        choice = raw_input()
        if choice == '1':
            print 'yes'
            c_1 = n
            flag1 = True
    if flag2 is False:
        os.system('cls')
        print u"如果你有两个选择："
        print u"选择1:你有20%的几率亏损",b,u"元，  80%的几率亏损0"
        print u"选择2:你有100%的几率亏损",hypo2(n)
        print u"你会选择："
        choice = raw_input()
        if choice == '1':
            print 'yes'
            c_2 = n
            flag2 = True
print 'done',c_1,c_2
c_1 = str(c_1)
c_2 = str(c_2)
tf = open('testfile.txt','a')
tf.write(c_1)
tf.write('.')
tf.write(c_2)
tf.write('\n')
tf.close()
```