Problem1-1

1. The Knights who say, ni!
2. Spamspamspamni!ni!
3. p
4. pa
5. ani
6. spam!
7. I

Problem1-2

1. s2=s2[0:2]

print('\"'+str.upper(s2)+ '\"')

1. print('\"'+s2+s1+s2+'\"')
2. s1=str.capitalize(s1)

s2=str.capitalize(s2)

print('\"' +(s1+s2)\*3+'\"')

1. s1=s1.replace("m", "n ")

print('\"'+s1+'\"')

1. s1=s1.replace("a","")

print('\"'+s1+'\"')

Problem1-3

1. Looks like spam and eggs for breakfast
2. There is 1 spam 4 you
3. illegal

There is only one %, but there are two string behind.

"Hello %s is %s" % ("Suzie", "Programmer")

1. 2.30 2.35
2. 2.30000 2.34680
3. Time left 01:37.37
4. Illegal

%d format: a number is required, not str

"%3d" % (14)

Problem1-4

1. # x>=y,so x=5-2=3

結果:

3

1. # 為華氏與攝氏的轉換

# tf=(9\*100)/5+32=212.0

# 因為有做運算所以tf是浮點數

結果:

212.0

1. # x<5, so x=0+1=1. x<5 still, so x=1+1=2. x<5, so x=2+1=3. x<5, so s=3+1=4. x<5, so # x=4+1=5. Finally, x>=5, so print(x)=5.

結果:

5

1. # x<=5, so x=1\*1=1 and i=1+1=2. x<=5, so x=1\*2=2 and i=2+1=3

# x<=5, so x=2\*3=6 and i=3+1=4. Finally, x>6, so print(x)=6

結果:

6

1. # x=0<6 and x%2==0, so print(“even”,0). x=0+1=1

# x=1<6 and x%2!=0, so print(“odd”,1). x=1+1=2

# x=2<6 and x%2==0, so print(“even”,2), x=2+1=3

# x=3<6 and x%2!=0, so print(“odd”,3). x=3+1=4

# x=4<6 and x%2==0, so print(“even”,4). x=4+1=5

# x=5<6 and x%2!=0, so print(“odd”,5). x=5+1=6

# x=6>=6

結果

even 0

odd 1

even 2

odd 3

even 4

odd 5

1. # i=0<6 and j=i=0, so i=0+1=1 and print()

# i=1<6 and j=0<I,so print(“\*”) and j=0+1=1

j=1=i, so break the while loop, and i=1+1=2 and print()

# i=2<6 and j=0<i, so print(“\*”) and j=0+1=1

j=1<i,so print(“\*”) and j=1+1=2

j=2=i, so break the while loop, and i=2+1=3 and print()

# i=3<6 and j=0<i, so print(“\*”) and j=0+1=1

j=1<i, so print(“\*”) and j=1+1=2

j=2<i, so print(“\*”) and j=2+1=3

j=3=i, so break the while loop and i=3+1=4 and print()

# i=4<6 and j=0<I, so print(“\*”) and j=0+1=1

j=1<i, so print(“\*”) and j=1+1=2

j=2<i, so print(“\*”) and j=2+1=3

j=3<i, so print(“\*”) and j=3+1=4

j=4=i, so break the while loop and i=4+1=5 and print()

# i=5<6 and j=0<I, so print(“\*”) and j=0+1=1

j=1<i, so print(“\*”) and j=1+1=2

j=2<i, so print(“\*”) and j=2+1=3

j=3<i, so print(“\*”) and j=3+1=4

j=4<I, so print(“\*”) and j=4+1=5

j=5=i, so break the while loop and i=5+1=6 and print()

# i=6, so break the while loop

結果:

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1. # score=40>1, so score=40/2-1=19

# score=19>1, so score=19/2-1=8.5

# score=8.5>1, so score=8.5/2-1=3.25

# score=3.25>1, so score=3.25/2-1=0.625

# score=0.625<1, so break the while loop

結果:

0.625

1. # x=2<y=7, so x=2\*2=4

# x=4<y, so x=2\*4=8

# x=8>y, so break the while loop and print(8)

結果:

8

1. # a,b=63,105

# a,b= 105,63%105 = 105,63

# a,b= 63,105%63 = 63,42

# a,b= 42,63%42 = 42,21

# a,b= 21,42%21 = 21,0

# so print(a)=21

## a is always a multiple of 21

結果:

21

1. # n=21!=1, so print(n, end”, “)= 21,

n%2!=0, so n=21\*3+1=64

# n=64!=1, so print(n, end”, “)= 64,

n%2=0, so n=64//2=32

# n=32!=1, so print(n, end”, “)= 32,

n%2=0, so n=32//2=16

# n=16!=1, so print(n, end”, “)= 16,

n%2=0, so n=16//2=8

# n=8!=1, so print(n, end”, “)= 8,

n%2=0, so n=8//2=4

# n=4!=1, so print(n, end”, “)= 4,

n%2=0, so n=4//2=2

# n=2!=1, so print(n, end”, “)= 2,

n%2=0, so n=2//2=1

# n=1, so break the while loop and print(n, end=".\n")= 1 .

結果:

21,64,32,16,8,4,2,1 .

Problem1-5

1. yuck
2. 4
3. alpha < zebra

Problem1-6

thief = 1

while thief<=4:

thief!=1

thief==3

thief==4

thief!=4

if ((thief !=1)+(thief ==3)+(thief==4)+(thief!=4)==3):

print("The true thief is %s." % (thief))

thief=thief+1