Forum:Hack Forums

Thread: [py challenge] challenge #2

SupreemJuggalo - *December 23, 2013, 12:12 pm*

hey all, this is to test your python skills (if i get good feedback from this i will post more)

1. Write a function is_between(x, y, z) that returns True if x <= y <= z or False otherwise.

2. Write a function factorial that takes in a number, calculates it's factorial and returns the final value to the program to print. The print should not happen within the function. Your function should use recursion, not extensive calculations.

please post the code in pastebin or if you must you can use the "code" tags

1nf4m0us - *December 23, 2013, 12:55 pm*

1) def is_between(x, y, z): return y >= x and y <= z
2) def factorial(x): return 1 if x==1 else x * factorial(x-1)
print factorial(4)

SupreemJuggalo - *December 23, 2013, 1:01 pm*

(Dec 23, 2013 01:55 PM)tokivena Wrote: *[CITE]* 1) def is_between(x, y, z): return y >= x and y <= z
2) def factorial(x, total): return total if x==1 else factorial(x-1, total*x)
print factorial(4, 1)
you are correct but it would have been easier to read if you put it in code tags or upload it to paste bin. :p

also you did not print weather its true or false for question 1

ImportUsername - *December 23, 2013, 1:14 pm*

(Dec 23, 2013 02:01 PM)SupreemJuggalo Wrote: *[CITE]* also you did not print weather its true or false for question 1
You just says to return the answer, not print it

SupreemJuggalo - *December 23, 2013, 1:18 pm*

sorry, i did not make it very clear. you still do need to print the answer. but it can not happen within the function.

glob - *December 23, 2013, 1:29 pm*

Spoiler (Click to View)
PHP Code
<?php
is_between = lambda x,y,z: x<=y<=z
fact = lambda x: 1 if not x else x * fact(x-1)
print is_between(1,2,3)

Skyla Blue - *December 23, 2013, 1:52 pm*

(Dec 23, 2013 02:29 PM)glob Wrote: *[CITE]* Spoiler (Click to View)
PHP Code

<?php
is_between = lambda x,y,z: all([x<=y,y<=z])
fact = lambda x: 1 if not x else x * fact(x-1)
print is_between(1,2,3)

Damnit glob, you and your obsession with lambadas ._.

Melkor333 - *December 23, 2013, 2:00 pm*
glob that must be in a function.. =P

Skyla Blue - *December 23, 2013, 2:03 pm*
(Dec 23, 2013 03:00 PM)Melkor333 Wrote: *[CITE]* glob that must be in a function.. =P
Do you not know what a lambada is? Lol

PigBacon - *December 23, 2013, 2:16 pm*
You guys are all making this way too complex. You can literally chain the comparison operands in Python. He gave you what you needed to do in the challenge.
Spoiler (Click to View)
>>> x, y, z = 1, 2, 3
>>> x <= y <= z
True

glob - *December 23, 2013, 3:11 pm*
(Dec 23, 2013 03:00 PM)Melkor333 Wrote: *[CITE]* glob that must be in a function.. =P
A lambda is an anonymous function. Call it the same way lol

SupreemJuggalo - *December 23, 2013, 11:42 pm*
i can see you all are having a little fun with this. lol thats good to see, i will post another one tomorrow. look for it if you like.

DpzFAsq4UEK8 - *December 24, 2013, 5:15 am*
1. def is_between(x,y,z): return x <= y <= z
2.
PHP Code
<?php
def fa(num):
if num == 0:
return 1
elif num < 0:
raise Exception("negative number!")
else:
return num * fa(num-1)

Eight - *December 24, 2013, 1:45 pm*
(Dec 23, 2013 03:16 PM)plausibility Wrote: *[CITE]* You guys are all making this way too complex. You can literally chain the comparison operands in Python. He gave you what you needed to do in the challenge.
Spoiler (Click to View)
>>> x, y, z = 1, 2, 3
>>> x <= y <= z
True

Damn. Today I learned.
Also, behold my generic solutions :

Spoiler (Click to View)
PHP Code
<?php
```
def is_between(x, y, z):
    return x <= y <= z

def fact(n):
    if n == 1:
        return 1
    return n * fact(n - 1)

print is_between(1, 2, 3)
print fact(5)
```

Melkor333 - *December 24, 2013, 4:20 pm*
(Dec 23, 2013 04:11 PM)glob Wrote: [CITE] A lambda is an anonymous function. Call it the same way lolSpoiler (Click to View)
okay, i wrote it wrong.. i meant that should all be in ONE function:
Code def is_between(x, y, z):
```
    your
    lambdas
    here

is_between(1, 2, 3)
```

But nevermind, just peanuts ?