

Forum:[Hack Forums](#)

Thread: [python fibonacci sequence error and other questions on python](#)

fogstone - September 26, 2017, 1:48 pm

Hey everyone, as you've probably inferred, I'm taking another integrated programming class. I wanted to ask about some basic information about a python program I am doing for practice (not from the class itself). I want to be told what I am doing wrong without giving away the answer please. Here is my python code:

```
Code list = [range(0,100)]
for num in list:
    if num == 0:
        i = 0
        print(str(i) + " ")
    elif num == 1:
        i = 1
        print(str(i) + " ")
    else:
        i = (list[num - 1] + list[num - 2])
        print(str(i) + " ")
```

I get this error and I didn't think it would happen:

```
Code PS C:\Users\William Smith\Desktop\New CIT 270\Python> python .\exercise13.py
```

Traceback (most recent call last):

File ".\exercise13.py", line 10, in <module>

```
i = (list[num - 1] + list[num - 2])
```

TypeError: unsupported operand type(s) for -: 'range' and 'int'

Again could someone tell me what I'm doing wrong without explicitly giving me the answer? Thank you.

I also have some other questions about python. I know its a commonly known language in computer security. What are the prerequisites of Black Hat Python? I am doing CCNA and I want to learn networking before I learn any hacking. The next thing I'm probably going to go for is a Linux Essentials cert and I'm wondering if security+ is necessary for reading Black Hat Python. I may do security+ anyways and then right afterwards do OSCP or OSWP cert course next summer. But I may decide after I complete my CCNA and Linux Essentials material to jump into Black Hat Python. I'm probably jumping ahead of myself, but is a CCNA and Linux Essentials a good set of prerequisites for Black Hat Python?

The other question is if I was looking for a wifi hacking course that used python. I found one but it was python programming separate from hacking. I think I may have seen a course here and there but does anyone know where I can find a good wifi hacking course that uses python? I may decide to do that instead of black hat python.

Thanks everyone. I know its a fuckload of topics to answer. If you don't want to answer all of them, you don't have to. I'm not a Nazi so I don't make strict rules like that and I don't have the authority to anyways (but honestly, I'm a nice guy so I don't want to). Thanks everyone.

yours truly,

fogstone

PS

This forum kicks ass!

soueuils - September 26, 2017, 1:56 pm

Quote:Again could someone tell me what I'm doing wrong without explicitly giving me the answer?

Thank you.

```
list = [range(0,100)]
```

This is ultimately where the problem lies, `range(0, 100)` is what we call a generator. When you put something between brackets it creates a Python list.

`list` (the variable) is then a list containing one item of type generator. I will try to let you think about what happens in your `for in` loop.

Also, try to avoid naming your variable like `"list"` because this is already a Python builtin datastructure.

[here](#) some interesting read about when you should use a generator and when you should use a list.

?

fogstone - September 26, 2017, 2:32 pm

(Sep 26, 2017 01:56 PM)soueuils Wrote: [\[CITE\]](#) `list = [range(0,100)]`

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?

I figured it out. Here is the working code:

```
Code fib = range(0,100)
for num in fib:
    if num == 0:
        i = 0
        print(str(i) + " ")
    elif num == 1:
        i = 1
        print(str(i) + " ")
    else:
        i = (fib[num - 1] + fib[num - 2])
        print(str(i) + " ")
```

Thanks so much.

You win at life.

Best,

fogstone

minimalist - *September 26, 2017, 2:36 pm*

I think you're misunderstanding the sequence. It should be dependent on the values of the past two terms, not their indexes.