CODECLUB

16.09.2015





Python CodeClub bit.ly/pythoncodeclub

QUESTIONS FROM LAST WEEK

COMPLEX NUMBERS

- Create a class named Complex
- Complex number should hold the real and imaginary part
- The class should have a method __init__ for initializing the complex number
- Documentation is your best friend:
 https://docs.python.org/3.5/tutorial/classes.html

complex.py example

class Complex:

```
real = None
imaginary = None

def __init__(self, r, i):
    self.real = float(r)
    self.imaginary = float(i)
```

main.py example

```
from complex import Complex
if ___name__ == "__main__":
    print(Complex(1, 2))
    print(Complex(0, 2))
    print(Complex(1, -2))
    print(Complex(0, -2))
    print(Complex(-1, -2))
```

Make main.py print values like this

```
> python main.py
1.00 + 2.00i
2.00i
1.00 - 2.00i
-2.00i
-1.00 - 2.00i
```

CHALLENGE

- Download tests.py from bit.ly/PCCdropbox
- Make the tests pass by running python tests.py

CHALLENGE 2

- Make your own tests for:
 - Adding complex numbers
 - Subtracting complex numbers
 - Multiplying complex numbers
 - Dividing complex numbers
 - · Finding the absolute value of a complex number

CHALLENGE 3

• Make your own tests pass:)

FINALLY

- Find the same challenge from <u>hackerrank.com</u> >
 Python domain > Classes
- Make needed adjustments and submit the challenge

INFO

Ask for an extra special task or challenge us!:)

· Challenge yourself at www.hackerrank.com

• taavi@thorgate.eu / ken.veski@ttu.ee