Introduction to debugging in Python
(+ CodeFights!)

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The available weapons

Fortunately, you will not have to face that problem barehanded. Python (and all languages) provides you with some useful weapons ready to use: loggers, tracers, monitoring tools, debuggers...
So please stop using print commands to try to find the errors ;)

```
1  ##
2  # @Input: positive integer
3  # @Output: equals to @Input if @Input is bigger
4  # than 12, and to 12 otherwise
5  ##
6  def returnTwelve(number):
7      while number < 12:
8          number = number + 1
9      return 12
```

Logging

Blablabla

Blablabla

Debugging

Blablabla

Blablabla

Blablabla

Repeat the last debugging command with *ENTER*

Blablabla

Blablabla

Print the value of a variable with *p* (print)

Blablabla

Blablabla

See where you are with *l* (list)

Blablabla

Blablabla

Continue to the end of the current subroutine with *r* (return)

Blablabla

...just be a little careful!

Blablabla

Sources and references

- Official documentation:
  https://docs.python.org/2/library/pdb.html
- Debugging in Python, 2009 post by Steve Ferg:
  https://pythonconquerstheuniverse.wordpress.com/
  2009/09/10/debugging-in-python/
- Python debugging tools, 2013 post by ionel's codelog:
  http://blog.ionelmc.ro/2013/06/05/
  python-debugging-tools/

Let's practice!

First some small exercises
Then CodeFights!

Thank you :) Now you try!!