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Die Schule der Technik

SEW

.

Fraction module documentation
4CHIT 2016/17, SEW

Pierre Rieger

Version 1
Started October 19, 2016

Note:
Teacher: W.Rafeiner

Contents

1 Introduction

This protocol describes how the assignment was solved.
It discuess the use of Sphinx to build a well formated documentation for modern python code as well as a guide to **TDD**(Test Driven Development)

2 Code

The code used to solve the assignment can be found under:
https://github.com/Pierre-Rieger/sew/tree/master/python.

2.1 About the code

The code for Bruch(which is refereed to as "fraction" in the following paragraphs) heavily deals with operator overloading to the point that almost every magic method that python provides is overridden. This is to ensure a natural work-flow that you would expect from a mathematical library. It uses functions such as finding the least common denominator (ger: kgv), it also provides a way to be treated as a sequence by implementing `__iter__`. Herby following code is possible `x, y = Bruch(1, 2)`. The only thing the author of this document frowns upon is that the object is mutable by exposing `self.zaheler and self.nenner`.

All overloaded operators return a new object.

3 Tests

As of October 19, 2016all 64 of the 64 tests are passing. To check this run `python3 testfall.py` in a shell.
Results are following (Look at the HTML page to have a better look at the passed tests which is on github)

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```

```
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```

4   Documentation

Like the tests, the documentation can also be found on github!

List of Tables

Listings

List of Figures