Technische Universität München
Fakultät für Informatik
Lehrstuhl für Effiziente Algorithmen
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Problem Sheet 8
Jule 25, 2009

Python For Fine Programmers

Deadline: July 2, 2009

Problem 1 (3 Points)

Create a small http client setup using the socket programming interface of Python.

The program should be able to be run from command line like

```
program.py www.website.com
```

An web request can be made using HTTP. The data to be sent to the server is:

```
GET / HTTP 1.0 \r\n
Host: www.google.com \r\n\r\n
```

The line breaks are coded with "\r \n" and there is an empty line to show the end of request.

Usually, the webservers are listening at the ports 80.

Problem 2 (3 Points)

In the graph class, implement a function to check whether a given list of vertices form a hamiltonian path.

Problem 3 (4 Points)

In the same class, implement an function to check if two given graphs are isomorphs. The function accept a mapping (a function) and another graph and returs true or false

Problem 4 (2 Points)

Create an iterator NeverEnding, which is a sequence/collector on which one can call the `next` function infinite times.