Queueing Theory and Simulation, lecture 1

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1 Overview

1.1 General info

- This presentation is just a short overview.
- All information is on github
- All info is available on github.
- Read the intro's of the documents we put on github; they contain important information. (It will cost you lots of time if you don't.)
- In case of confusion (or conflict) consult the course_overview.org on github, as that document prevails.

1.2 Material

- queueing_book.pdf contains the main text, exercises, hints, and solutions
- For typo's, please make a PR (=pull request)
- short youtube movies to help you with simulating queueing systems.
- Assignments for the simulations, see the simulations directory.

2 Lectures and Tutorials

2.1 General lectures

- Lectures of about one hour, a overview and a few exercises
- Help me remind to record it!

2.2 Tutorials

As the attendance for tutorials proves to be very low, we found another form.

- Post questions on the discussion board on nestor. We discuss those problems and the solutions during the tutorial.
- All relevant material will be made available in discussion_board_questions.pdf on github (such as questions, solutions).

3 Assignments

3.1 A dumb, but motivating joke

- In a class of 14 year old pupils, there is something all speak about, a few know what it is, and only the teacher does it. What's that? It's S-X!
- In a course with 19 year old students, there is something all speak about, a few know what it is, and only the lecturer does it. What's that? It's CODING!
- And this annoys me to no-end! And I want this to change!

3.2 General structure and aim

- So I give the code to you in the assignment, you explain what is going on, you copy it, run it to do some experiments, and make some graphs or tables with numbers, and write a short 2 (3 at most) page document about it, in LATEX.
- In other words, I don't want something difficult, I want something real simple, as long as you start coding.
- Networking: You work on a document in pairs (of two).
- Networking: Every week you have to work with another person. Just ask (mail) around for other people to collaborate with.
- Networking: with a bit of luck you'll make a few life long friends.

4 Grading

4.1 All grades

See $course_overview.org$ on github.

```
Python Code

def compute_grade(a, e):
    if e < 5:
        g = e
    elif a >= 6:
        g = max(0.8 * e + 0.2 * a, e)
    else:
        g = 0.8 * e + 0.2 * a

return int(g + 0.5) # rounding
```