

Assignment1



Due: 11 February.

1 Data

(10 Points) Together with this assignment, you will find a text file called `Data_Simulation.txt`. The file contains a single column of data in scientific notation, which describes a phenomenon over time (whose beginning and units are arbitrary).

1. (10 Points) Plot the data.
2. (10 Points) Answer the following questions:
 - What statistical tools could you use to analyse them? After answering the question, apply some of the discussed tools.
 - Do the data follow any type of statistical distribution?
 - What can you say about the data?

2 Random numbers

(10 Points) Explain an algorithm for generating random numbers and provide an example.

3 git Repository¹

(20 Points) Create a git repository on <https://github.com> or <https://bitbucket.org/> and made a *commit* with a code written in any programming language that calculates Fibonacci numbers². The solution of this question is the URL of your repository.

¹The following link may be a good source for more information <http://rogerdudler.github.io/git-guide/>. The great Linus Torvalds talks about git, his second biggest project, in his TED Talk «The mind behind Linux».

²<http://mathworld.wolfram.com/FibonacciNumber.html>