Advanced Programming

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Excercise 1

Setup

Please check out the data for this excercise by ...
You find a file named ex1_gen used to generate the input data.
Run this program as follows ./ex1_gen 500000000 >ndata.dat .
The ndata.dat should then contains 500.000.000 binary stored 32 bit integers.
You can check by ls -l ndata.dat it should say something like 2GB.
All the numbers should be positive.

What do do?

Write a program named ex1 in C or your favorite language, which

- 1. Reads in the numbers from ndata.dat.
- 2. Prints the numbers in increasing order, ASCII representation, one number per line, no leading zeros or spaces, lines ended by a single newline.

How to report

- 1. use time ex1 ndata.dat to get the runtimes of your program.
- 2. run ex1 ndata.dat | wc.
- 3. run ex1 ndata.dat | md5sum.

Send the output of time, wc, and md5sum together with the source code to thorsten.koch@tu-berlin.de with a subject of APPFS ex1.