

Assignment 2F

- A Download the zip file **Solutions.1.zip** from TISS and study all presentations and the scripts.
- B Write a MATLAB script **Assignment02B_Groupxx.m**¹ that computes the ordered list of all proper divisors of a natural number n in two different ways:
- (a) By checking all natural numbers between 1 and $n/2$ whether they divide n with zero remainder;
 - (b) By using the prime factorization of n to generate all divisors directly.

Apply both methods to $n = 2111655$ and to $n = 782515778$, compare the results and the required running time. Remember that most MATLAB functions take vector arguments!

Useful functions: `mod`, `factor`, `combnk`, `unique`, `tic`, `toc`

Pack the script in the zip file **Assignment02_Groupxx.zip and submit it per email to rudolf.fruehwirth@oeaw.ac.at before March 21, 6pm.**

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¹xx is your group number