***Preliminaries***

The solutions to the assignments involving R coding should be reported in details, all R code that you write should be **included** into the report. Also, all appropriate pictures or diagrams should be included.

***Assignment 1: Solving system of equations***

1. Load *complement.RData*
2. Try to solve equation **Ax=b.** What was the result? Look at the data, compute the condition number for this system with function *kappa()* and explain why the computation didn’t work.
3. Transform the system of equations to the equivalent one so that it can be solved on the computer. Compute the condition number for the new system and make necessary comments.
4. Try to solve the new system using Cholesky decomposition. Why it did not work?
5. Solve the new system with *solve()* and *qr.solve()*. Comment the result.

## Submission procedure

Just send-in the solutions via It’s learning.