You may again submit a diary file of your work session. However, if you write or use any M-files, please submit them as well so that I can reproduce your work.

All problems are taken from our textbook Experiments in Matlab.

1. Do Exercise 2.4 (Backslash). Note that you need to use the value phi = (1+sqrt(5))/2 for ϕ . In addition to the system mentioned in the book, also solve the system

$$c_1\phi + c_2(1 - \phi) = 1$$
$$c_1\phi^2 + c_2(1 - \phi)^2 = 1$$

which corresponds to the discussion in the slides.

What is the formula for f_n in each of the two cases? How do you explain the difference?

- 2. Do Exercise 2.6 (Execution time).
- 3. Do Exercise 2.8 (Slower maturity).
- 4. Do Exercise 3.9 (Your birthday). Refer to the "Friday the 13th" section and http://www.mathworks.com/moler/exm/friday13.m for guidance.